



## Appendix E

### RF Test Data for 5.3G WIFI (Conducted Measurement)

Product Name: All-In-One Touch Screen

Test Model: HS-65IW-L06PA

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24.1℃     |
| Relative Humidity: | 52.4%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Monkey Li |
| Supervised by:     | Li Huan   |





## E.1 Emission Bandwidth

### Test Result

| TestMode   | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------|----------|----------|------------|---------|
| 11A        | Ant0    | 5260           | 20.840         | 5249.560 | 5270.400 | ---        | ---     |
|            |         | 5300           | 20.920         | 5289.640 | 5310.560 | ---        | ---     |
|            |         | 5320           | 20.760         | 5309.680 | 5330.440 | ---        | ---     |
| 11N20SISO  | Ant0    | 5260           | 21.280         | 5249.360 | 5270.640 | ---        | ---     |
|            |         | 5300           | 21.120         | 5289.480 | 5310.600 | ---        | ---     |
|            |         | 5320           | 21.280         | 5309.360 | 5330.640 | ---        | ---     |
| 11N40SISO  | Ant0    | 5270           | 39.360         | 5250.320 | 5289.680 | ---        | ---     |
|            |         | 5310           | 39.360         | 5290.320 | 5329.680 | ---        | ---     |
| 11AC20SISO | Ant0    | 5260           | 21.200         | 5249.320 | 5270.520 | ---        | ---     |
|            |         | 5300           | 21.200         | 5289.360 | 5310.560 | ---        | ---     |
|            |         | 5320           | 21.160         | 5309.440 | 5330.600 | ---        | ---     |
| 11AC40SISO | Ant0    | 5270           | 39.200         | 5250.320 | 5289.520 | ---        | ---     |
|            |         | 5310           | 39.280         | 5290.400 | 5329.680 | ---        | ---     |
| 11AC80SISO | Ant0    | 5290           | 80.960         | 5249.680 | 5330.640 | ---        | ---     |



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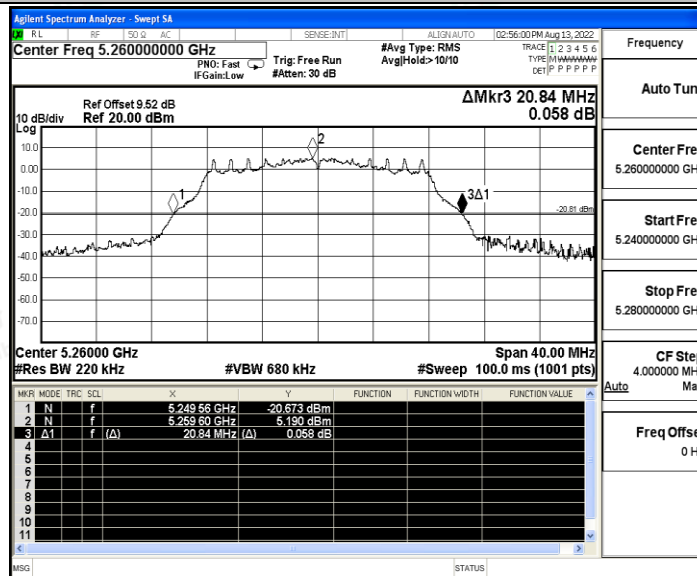
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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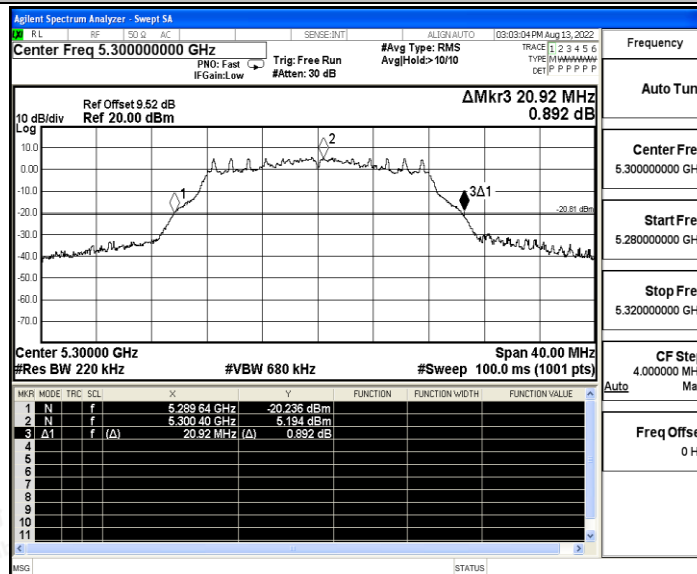


## Test Graphs

11A\_Ant0\_5260



11A\_Ant0\_5300



11A\_Ant0\_5320

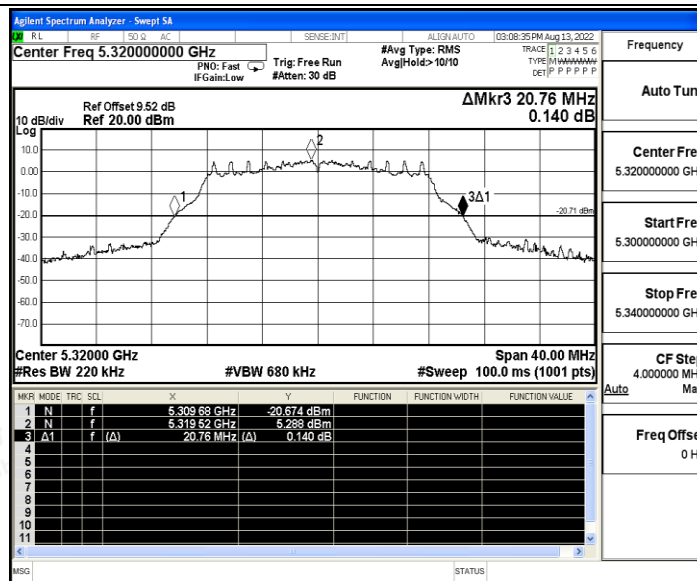


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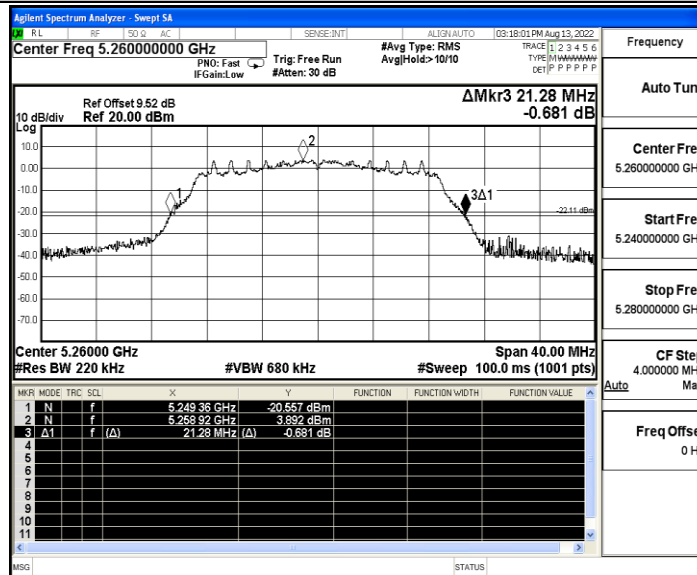
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11N20SISO\_Ant0\_5260



11N20SISO\_Ant0\_5300

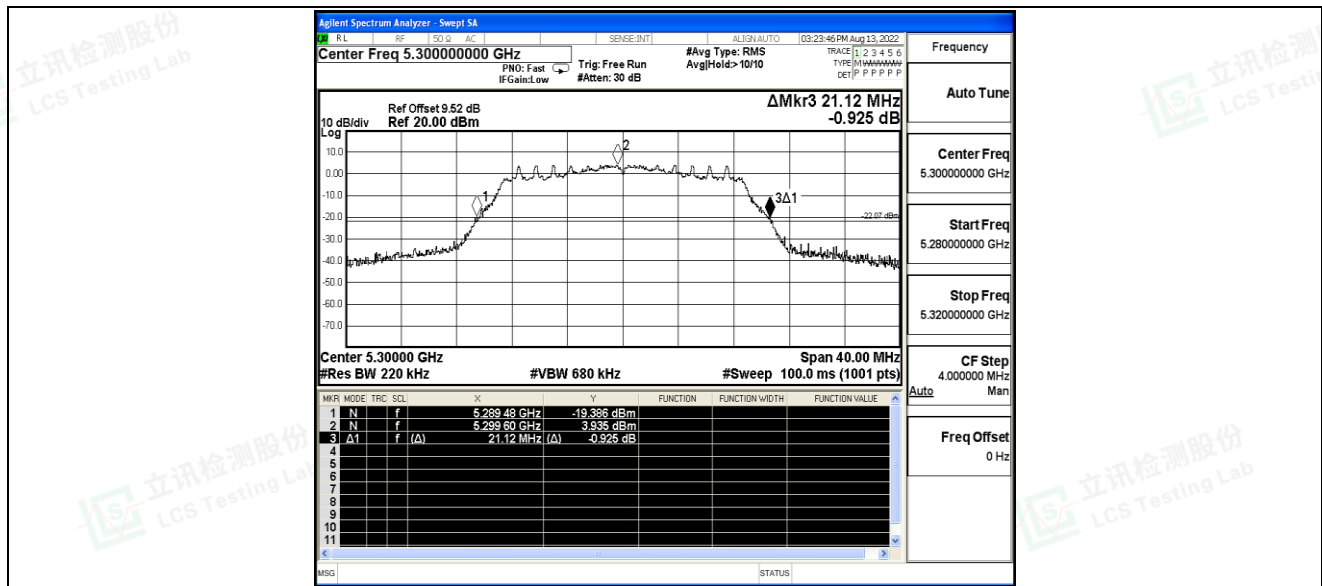


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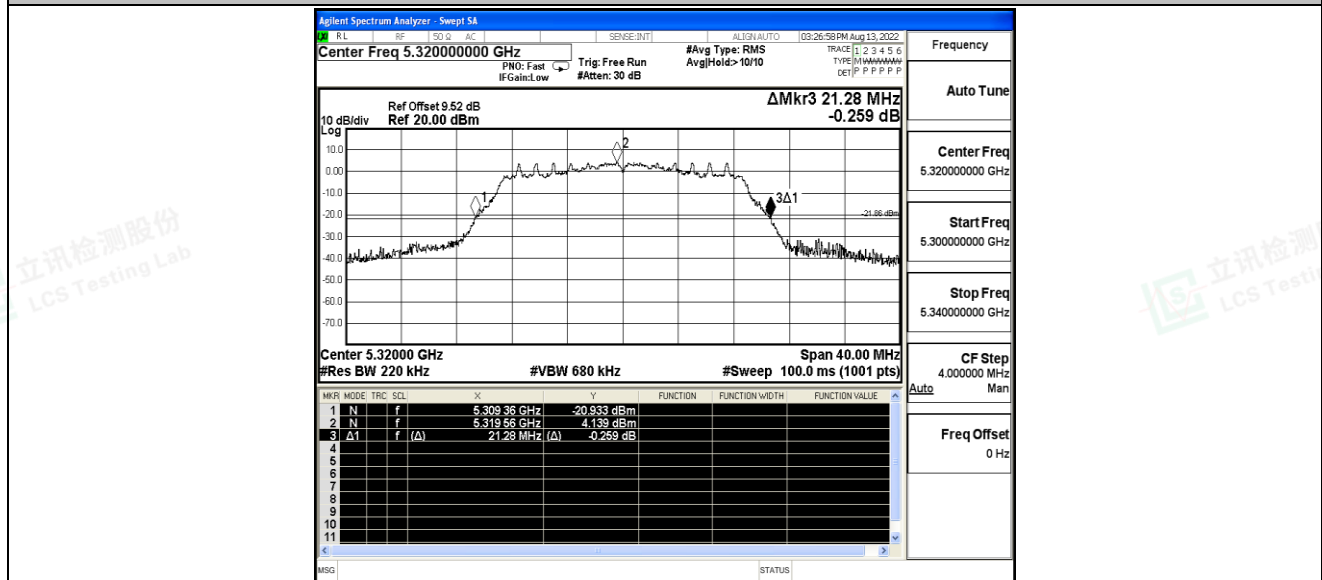
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11N20SISO\_Ant0\_5320



11N40SISO\_Ant0\_5270

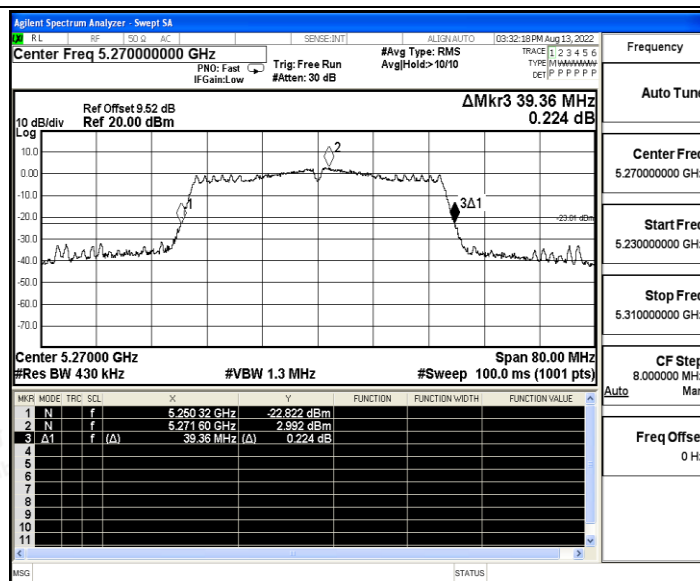


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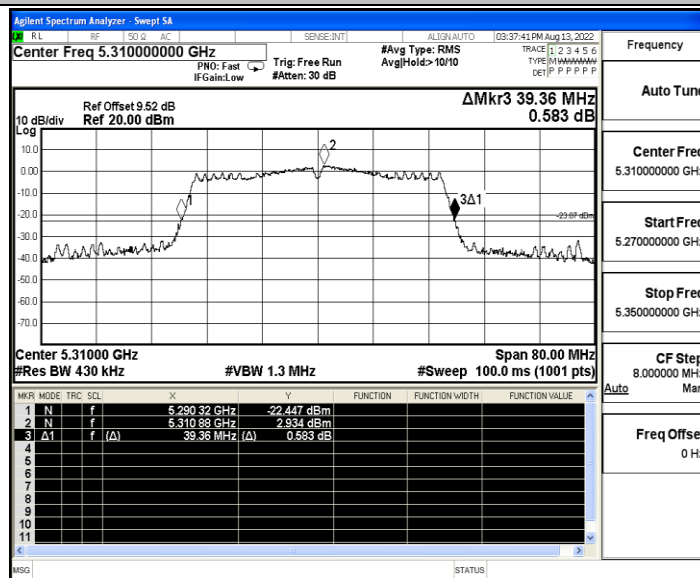
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11N40SISO\_Ant0\_5310



11AC20SISO\_Ant0\_5260

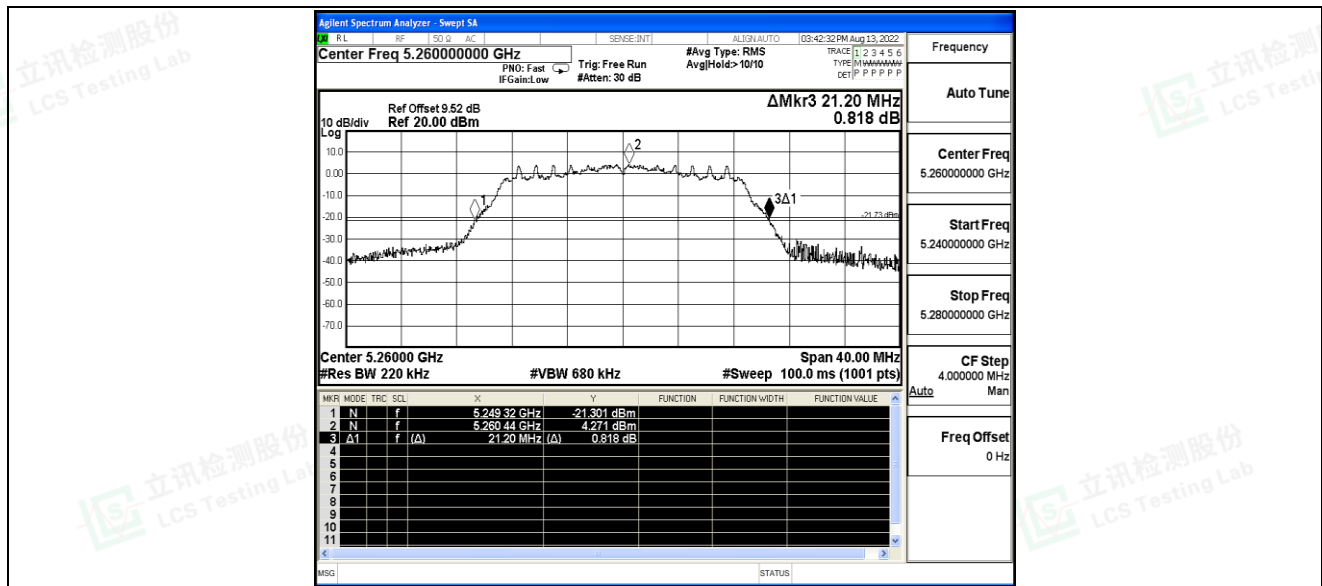


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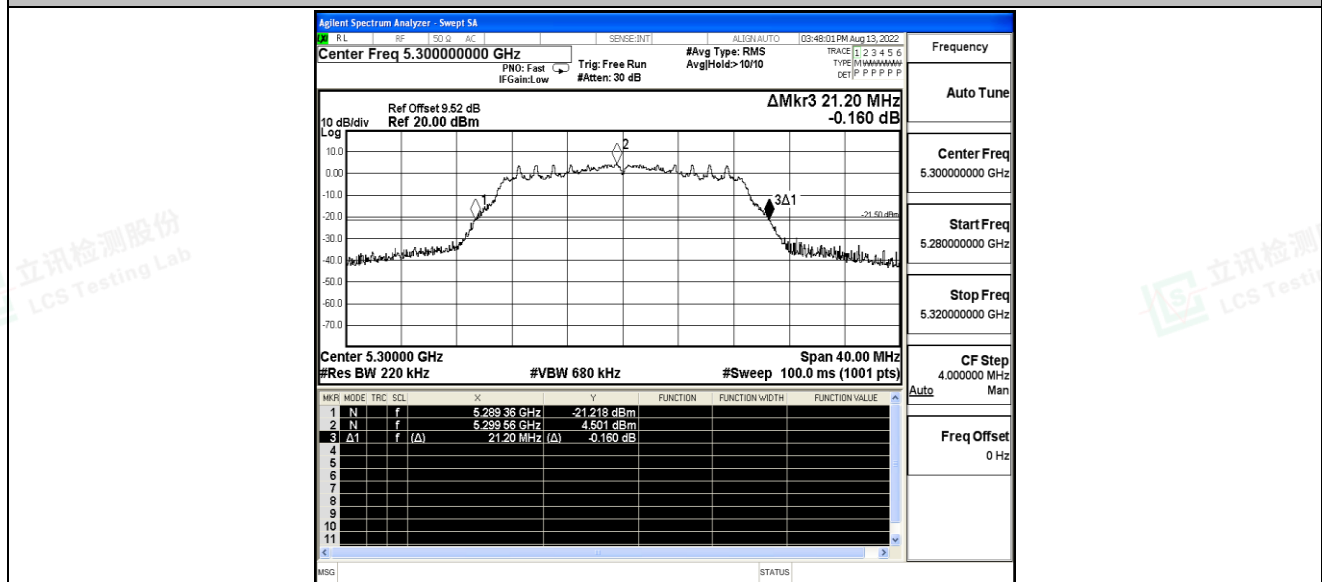
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11AC20SISO\_Ant0\_5300



11AC20SISO\_Ant0\_5320

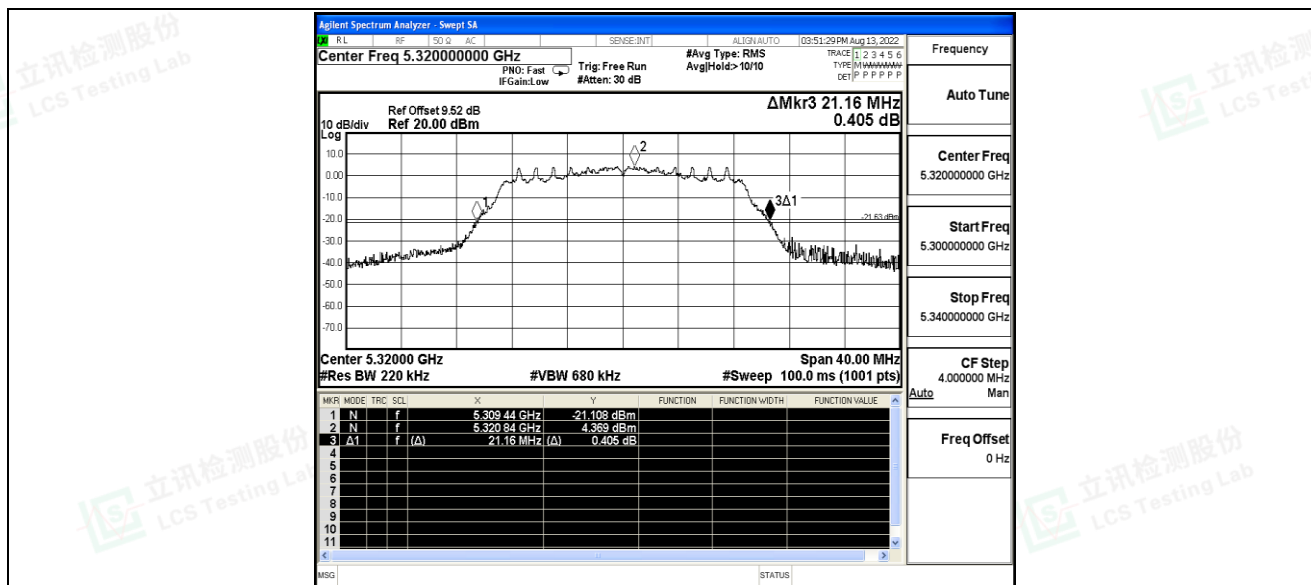


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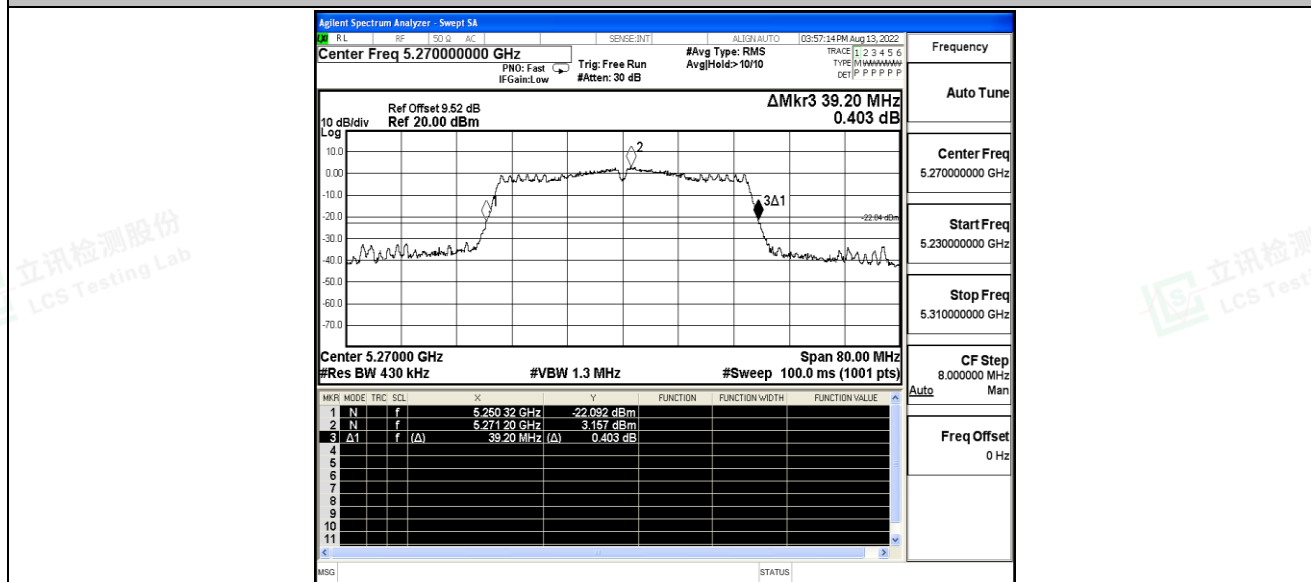
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11AC40SISO\_Ant0\_5270



11AC40SISO\_Ant0\_5310

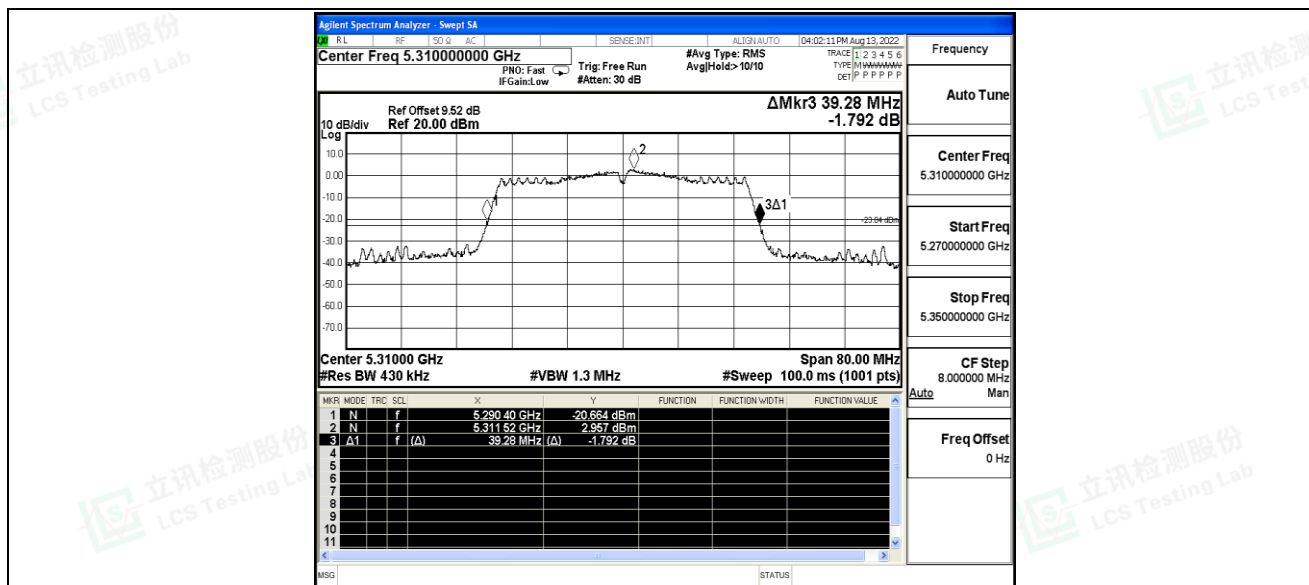


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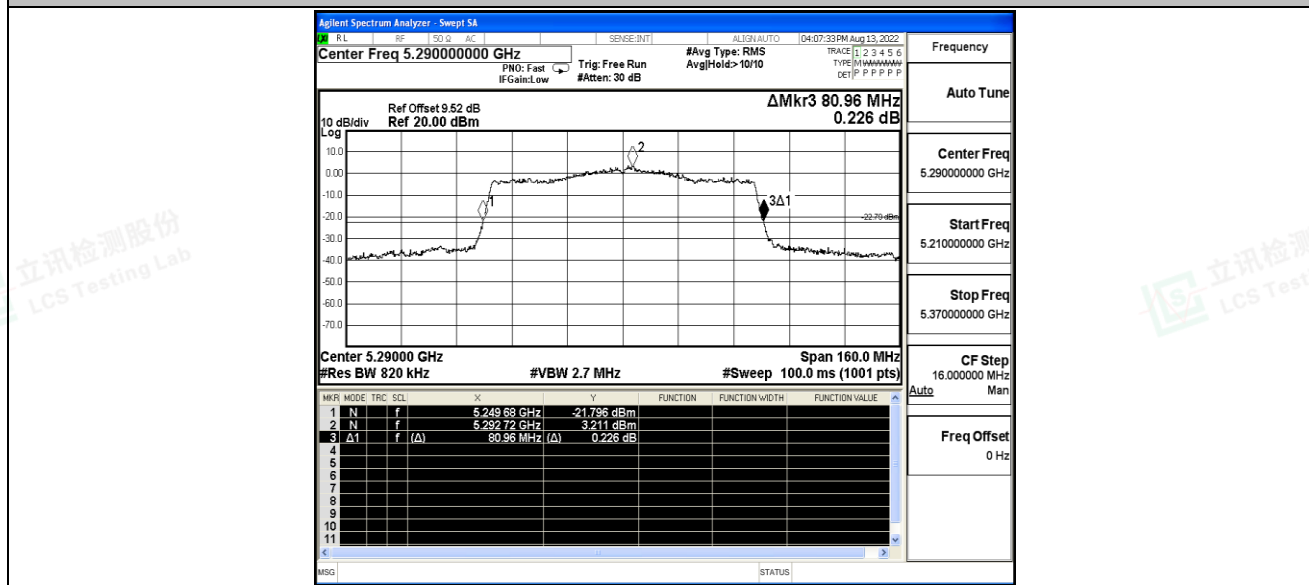
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## 11AC80SISO\_Ant0\_5290



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| TestMode   | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5260           | 20.680         | 5249.680 | 5270.360 | ---        | ---     |
|            |         | 5300           | 20.760         | 5289.680 | 5310.440 | ---        | ---     |
|            |         | 5320           | 20.760         | 5309.680 | 5330.440 | ---        | ---     |
| 11N20SISO  | Ant1    | 5260           | 21.040         | 5249.440 | 5270.480 | ---        | ---     |
|            |         | 5300           | 20.840         | 5289.600 | 5310.440 | ---        | ---     |
|            |         | 5320           | 21.080         | 5309.360 | 5330.440 | ---        | ---     |
| 11N40SISO  | Ant1    | 5270           | 39.440         | 5250.320 | 5289.760 | ---        | ---     |
|            |         | 5310           | 39.280         | 5290.400 | 5329.680 | ---        | ---     |
| 11AC20SISO | Ant1    | 5260           | 21.160         | 5249.360 | 5270.520 | ---        | ---     |
|            |         | 5300           | 21.080         | 5289.520 | 5310.600 | ---        | ---     |
|            |         | 5320           | 21.160         | 5309.360 | 5330.520 | ---        | ---     |
| 11AC40SISO | Ant1    | 5270           | 38.880         | 5250.560 | 5289.440 | ---        | ---     |
|            |         | 5310           | 39.120         | 5290.480 | 5329.600 | ---        | ---     |
| 11AC80SISO | Ant1    | 5290           | 80.640         | 5249.520 | 5330.160 | ---        | ---     |



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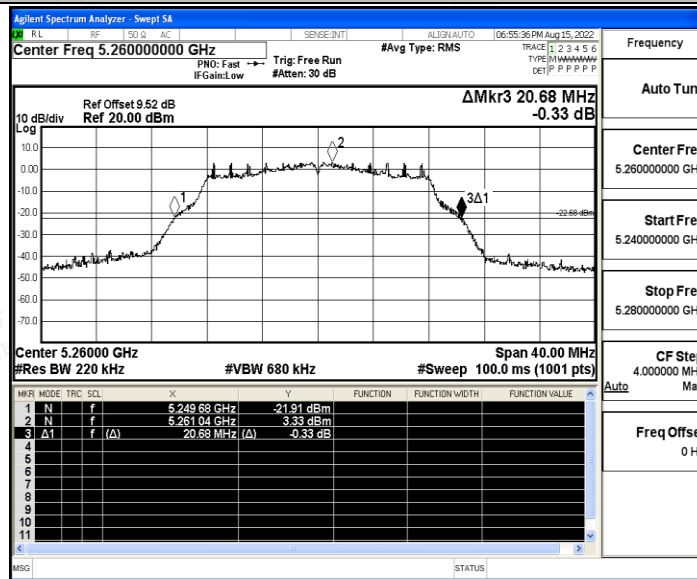
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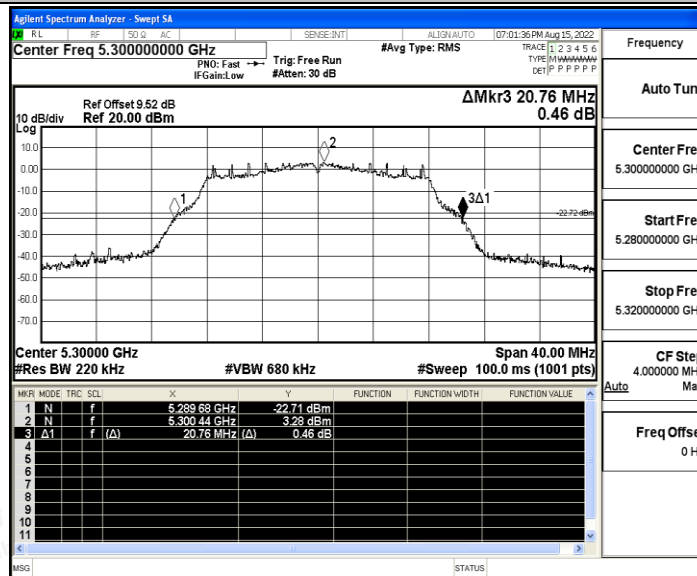


## Test Graphs

11A\_Ant1\_5260



11A\_Ant1\_5300



11A\_Ant1\_5320

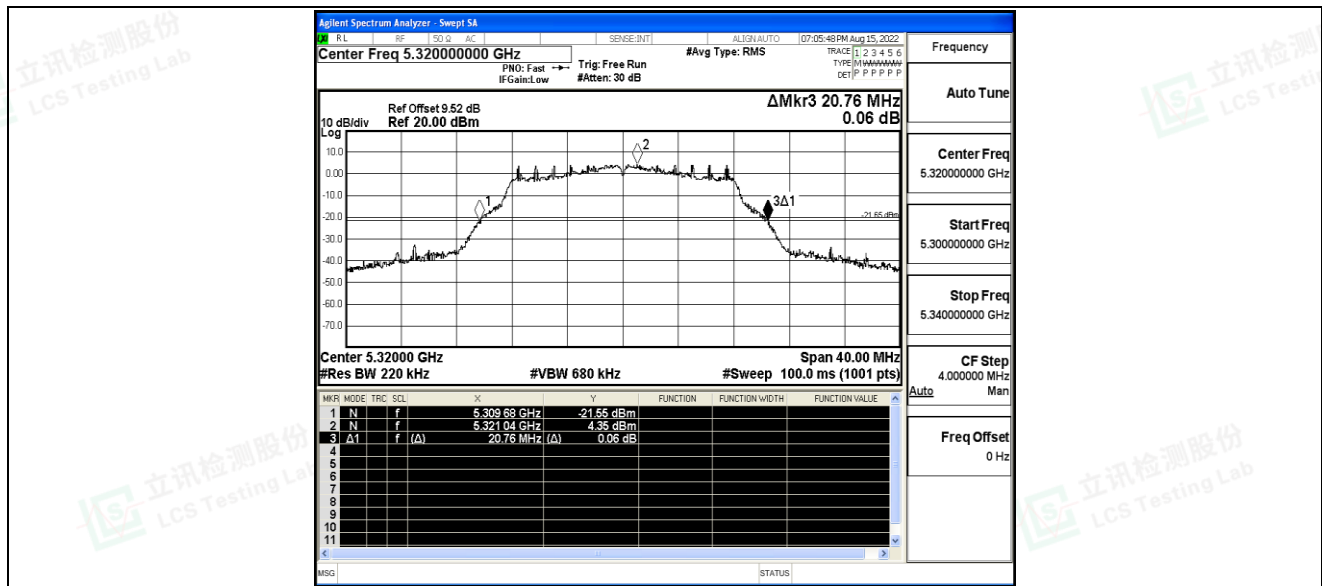


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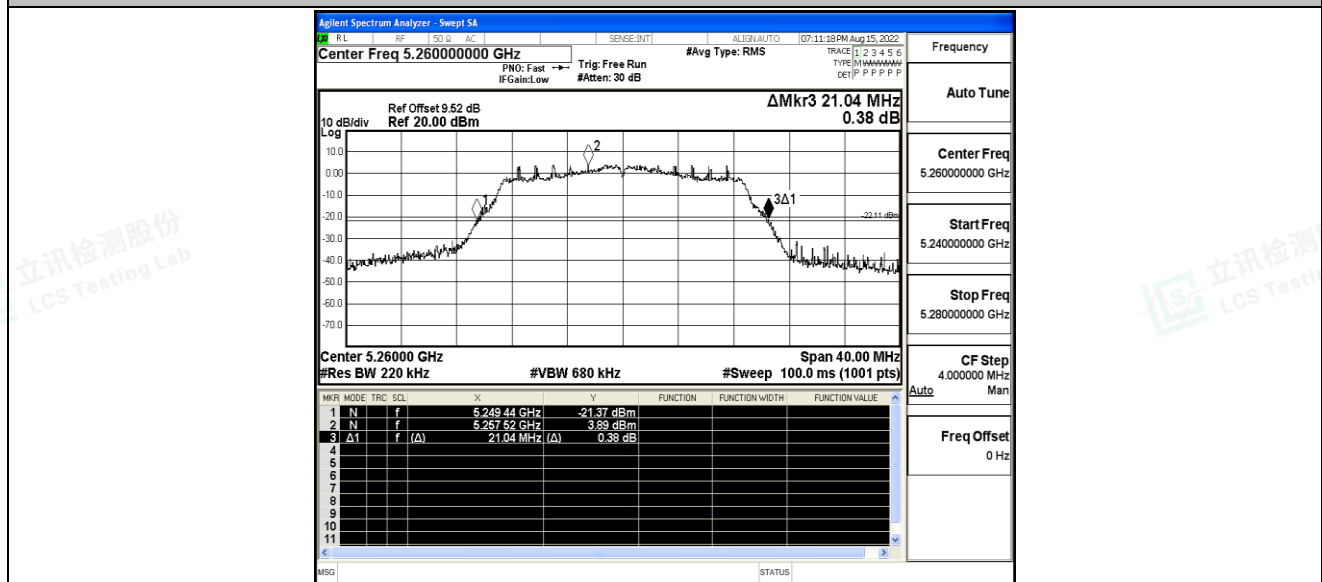
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO\_Ant1\_5260



11N20SISO\_Ant1\_5300

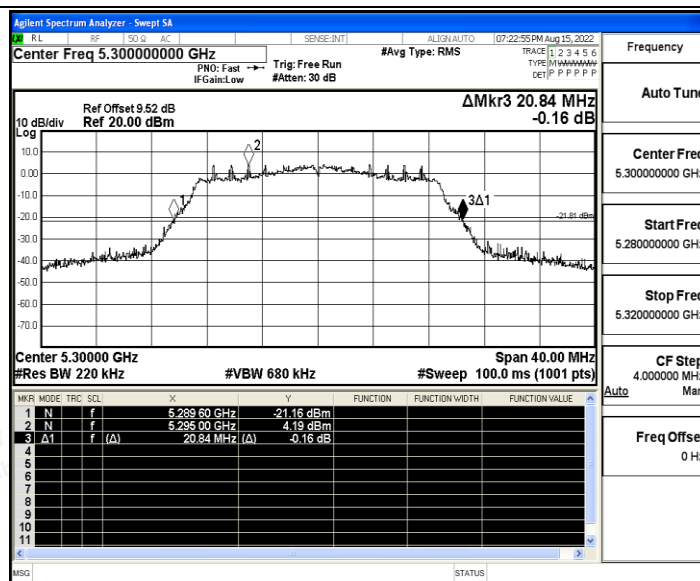


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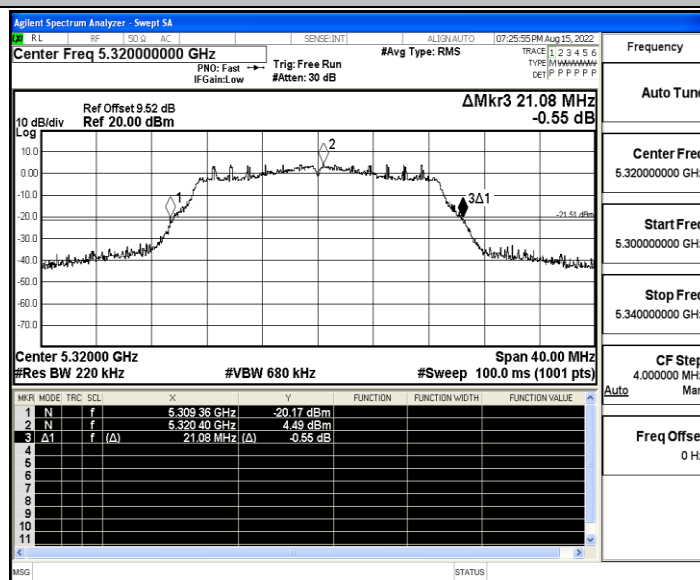
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11N20SISO\_Ant1\_5320



11N40SISO\_Ant1\_5270

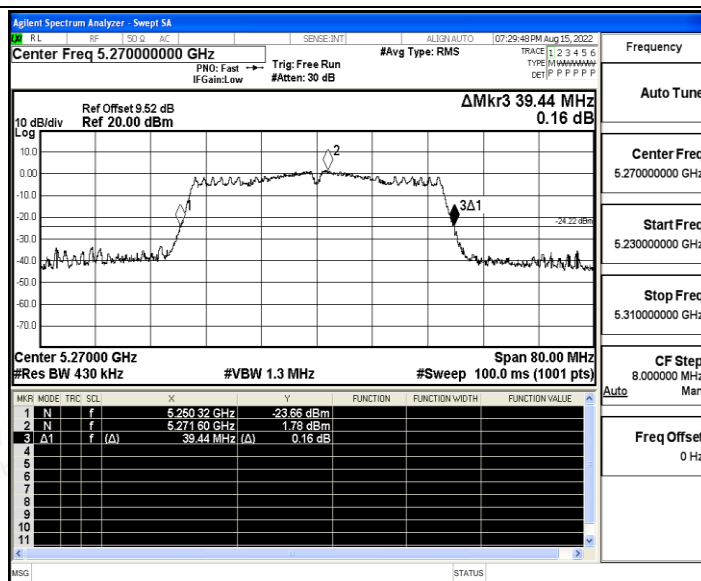


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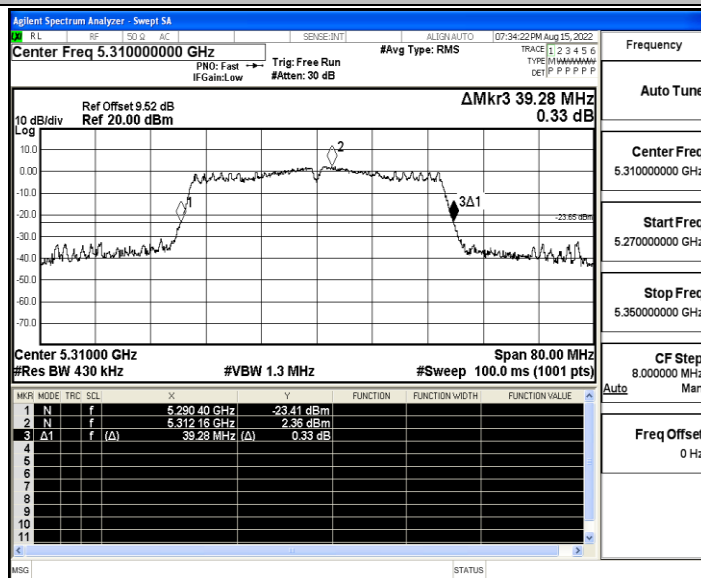
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11N40SISO\_Ant1\_5310



11AC20SISO\_Ant1\_5260

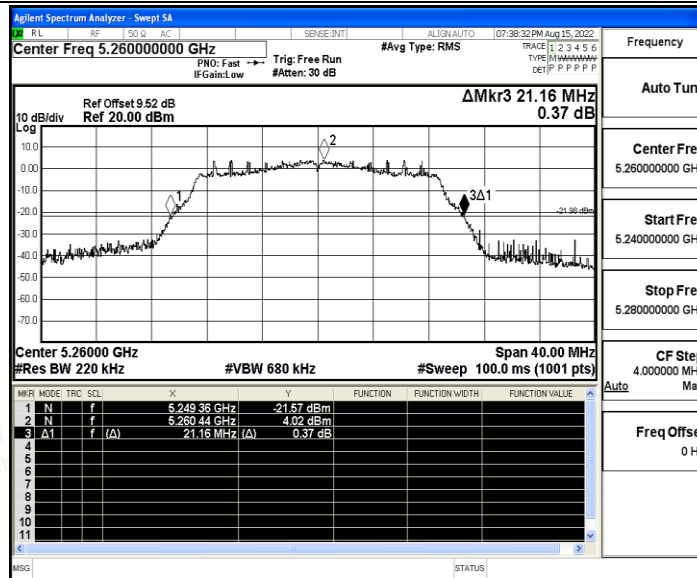


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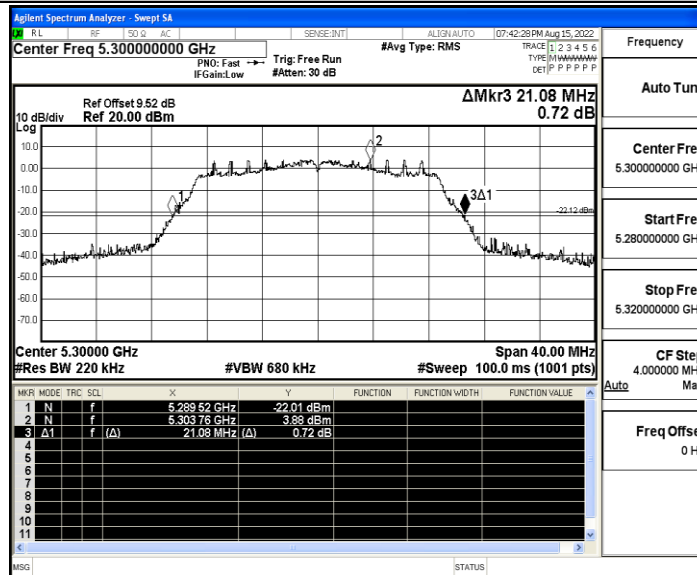
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11AC20SISO\_Ant1\_5300



11AC20SISO\_Ant1\_5320

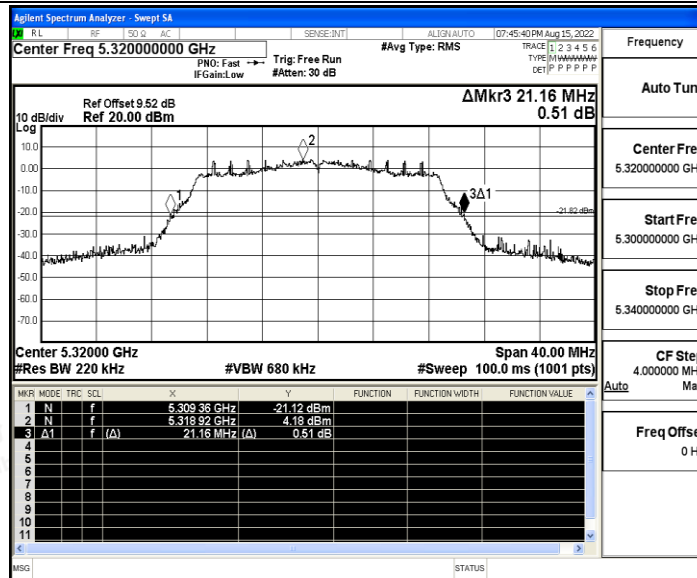


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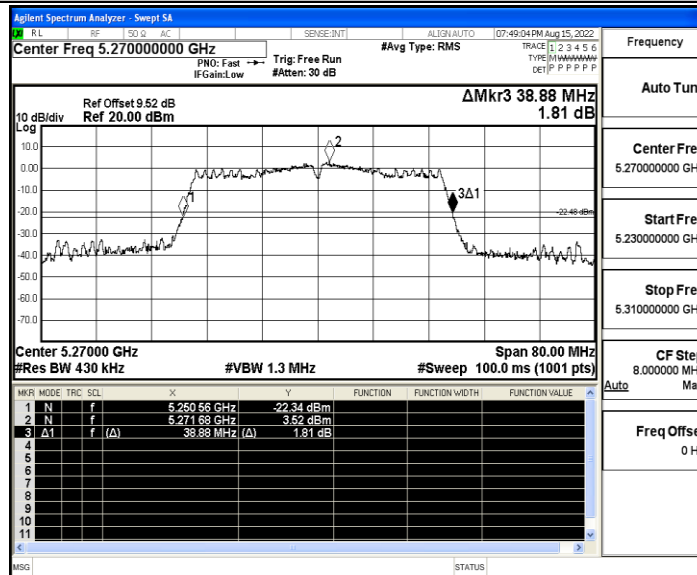
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11AC40SISO\_Ant1\_5270



11AC40SISO\_Ant1\_5310

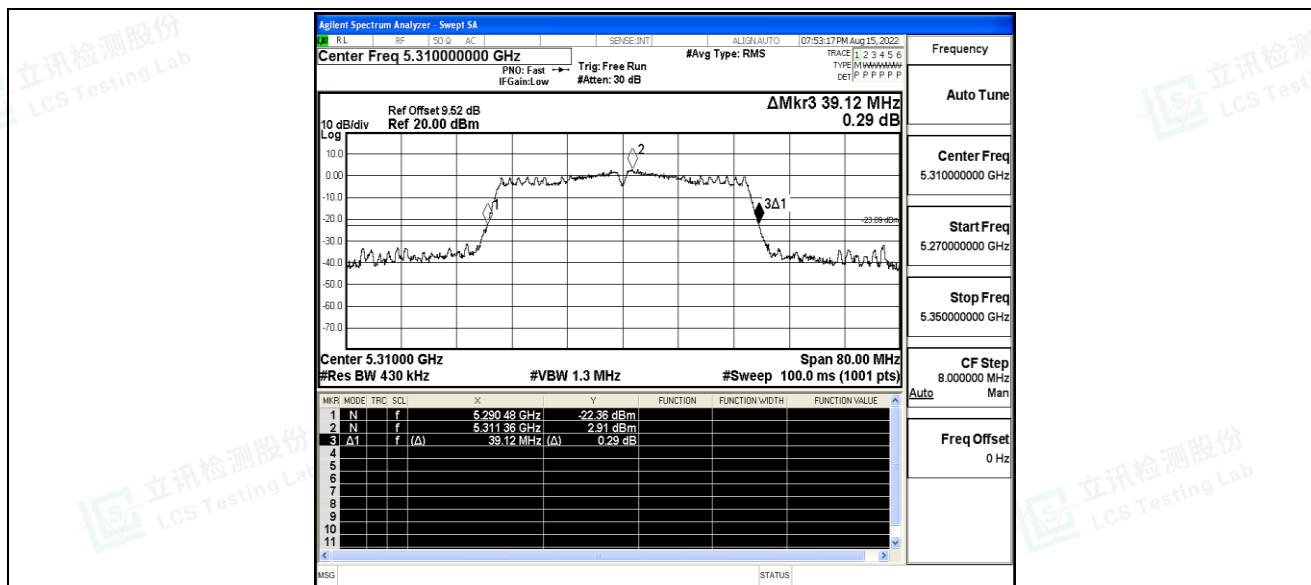


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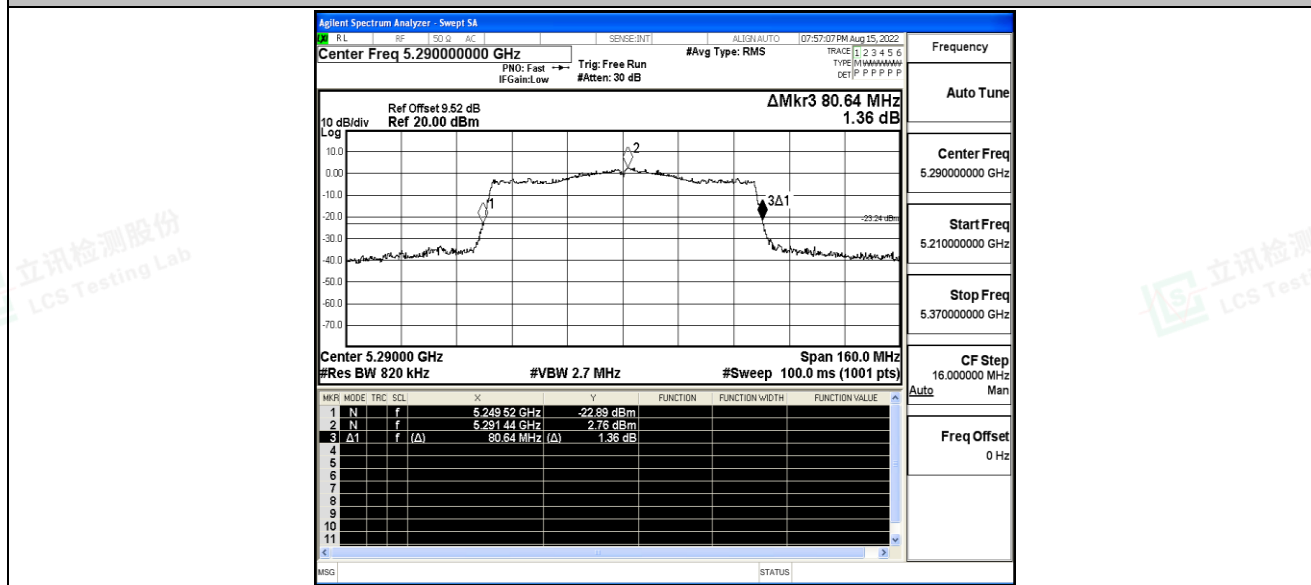
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## 11AC80SISO\_Ant1\_5290



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## E.2 Maximum conducted output power

### Test Result Channel Power

| Test Mode   | Antenna | Frequency [MHz] | Set Power | Channel Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-------------|---------|-----------------|-----------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11A         | Ant0    | 5260            | ---       | 12.54               | 93.33          | 0.30            | 12.84        | ≤23.98      | PASS    |
|             |         | 5300            | ---       | 12.68               | 93.33          | 0.30            | 12.98        | ≤23.98      | PASS    |
|             |         | 5320            | ---       | 11.73               | 93.29          | 0.30            | 12.03        | ≤23.98      | PASS    |
| 11N20SI SO  | Ant0    | 5260            | ---       | 12.54               | 92.91          | 0.32            | 12.86        | ≤23.98      | PASS    |
|             |         | 5300            | ---       | 11.61               | 92.91          | 0.32            | 11.93        | ≤23.98      | PASS    |
|             |         | 5320            | ---       | 11.66               | 92.91          | 0.32            | 11.98        | ≤23.98      | PASS    |
| 11N40SI SO  | Ant0    | 5270            | ---       | 9.72                | 86.67          | 0.62            | 10.34        | ≤23.98      | PASS    |
|             |         | 5310            | ---       | 9.60                | 51.59          | 2.87            | 12.47        | ≤23.98      | PASS    |
| 11AC20 SISO | Ant0    | 5260            | ---       | 11.65               | 92.91          | 0.32            | 11.97        | ≤23.98      | PASS    |
|             |         | 5300            | ---       | 11.65               | 92.96          | 0.32            | 11.97        | ≤23.98      | PASS    |
|             |         | 5320            | ---       | 11.70               | 92.96          | 0.32            | 12.02        | ≤23.98      | PASS    |
| 11AC40 SISO | Ant0    | 5270            | ---       | 9.60                | 86.84          | 0.61            | 10.21        | ≤23.98      | PASS    |
|             |         | 5310            | ---       | 9.56                | 86.67          | 0.62            | 10.18        | ≤23.98      | PASS    |
| 11AC80 SISO | Ant0    | 5290            | ---       | 8.86                | 76.19          | 1.18            | 10.04        | ≤23.98      | PASS    |

| Test Mode   | Antenna | Frequency [MHz] | Set Power | Channel Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-------------|---------|-----------------|-----------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11A         | Ant1    | 5260            | ---       | 11.02               | 93.33          | 0.30            | 11.32        | ≤23.98      | PASS    |
|             |         | 5300            | ---       | 10.95               | 93.33          | 0.30            | 11.25        | ≤23.98      | PASS    |
|             |         | 5320            | ---       | 11.98               | 93.33          | 0.30            | 12.28        | ≤23.98      | PASS    |
| 11N20SI SO  | Ant1    | 5260            | ---       | 11.71               | 93.57          | 0.29            | 12.00        | ≤23.98      | PASS    |
|             |         | 5300            | ---       | 11.82               | 92.91          | 0.32            | 12.14        | ≤23.98      | PASS    |
|             |         | 5320            | ---       | 11.86               | 92.91          | 0.32            | 12.18        | ≤23.98      | PASS    |
| 11N40SI SO  | Ant1    | 5270            | ---       | 8.96                | 86.49          | 0.63            | 9.59         | ≤23.98      | PASS    |
|             |         | 5310            | ---       | 9.89                | 86.49          | 0.63            | 10.52        | ≤23.98      | PASS    |
| 11AC20 SISO | Ant1    | 5260            | ---       | 11.73               | 92.96          | 0.32            | 12.05        | ≤23.98      | PASS    |
|             |         | 5300            | ---       | 11.78               | 92.96          | 0.32            | 12.10        | ≤23.98      | PASS    |
|             |         | 5320            | ---       | 11.81               | 92.96          | 0.32            | 12.13        | ≤23.98      | PASS    |
| 11AC40 SISO | Ant1    | 5270            | ---       | 9.87                | 86.84          | 0.61            | 10.48        | ≤23.98      | PASS    |
|             |         | 5310            | ---       | 9.86                | 86.67          | 0.62            | 10.48        | ≤23.98      | PASS    |
| 11AC80 SISO | Ant1    | 5290            | ---       | 9.13                | 76.19          | 1.18            | 10.31        | ≤23.98      | PASS    |



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## MIMO

| Condition | Mode | Frequency (MHz) | Total Power (dBm) |       |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|-------------------|-------|-----------|-------------|---------|
|           |      |                 | Ant0              | Ant1  | Ant0+Ant1 |             |         |
| NVNT      | n20  | 5260            | 12.86             | 12.00 | 15.46     | 23.67       | Pass    |
| NVNT      | n20  | 5300            | 11.93             | 12.14 | 15.05     | 23.67       | Pass    |
| NVNT      | n20  | 5320            | 11.98             | 12.18 | 15.09     | 23.67       | Pass    |
| NVNT      | n40  | 5270            | 10.34             | 9.59  | 12.99     | 23.67       | Pass    |
| NVNT      | n40  | 5310            | 12.47             | 10.52 | 14.61     | 23.67       | Pass    |
| NVNT      | ac20 | 5260            | 11.97             | 12.05 | 15.02     | 23.67       | Pass    |
| NVNT      | ac20 | 5300            | 11.97             | 12.10 | 15.05     | 23.67       | Pass    |
| NVNT      | ac20 | 5320            | 12.02             | 12.13 | 15.09     | 23.67       | Pass    |
| NVNT      | ac40 | 5270            | 10.21             | 10.48 | 13.36     | 23.67       | Pass    |
| NVNT      | ac40 | 5310            | 10.18             | 10.48 | 13.34     | 23.67       | Pass    |
| NVNT      | ac80 | 5290            | 10.04             | 10.31 | 13.19     | 23.67       | Pass    |



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### E.3 Maximum power spectral density

#### Test Result

| TestMode   | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A        | Ant0    | 5260           | 3.96             | ≤11.00         | PASS    |
|            |         | 5300           | 4.1              | ≤11.00         | PASS    |
|            |         | 5320           | 4.17             | ≤11.00         | PASS    |
| 11N20SISO  | Ant0    | 5260           | 3.81             | ≤11.00         | PASS    |
|            |         | 5300           | 2.8              | ≤11.00         | PASS    |
|            |         | 5320           | 3.03             | ≤11.00         | PASS    |
| 11N40SISO  | Ant0    | 5270           | -1.62            | ≤11.00         | PASS    |
|            |         | 5310           | 0.74             | ≤11.00         | PASS    |
| 11AC20SISO | Ant0    | 5260           | 2.92             | ≤11.00         | PASS    |
|            |         | 5300           | 2.86             | ≤11.00         | PASS    |
|            |         | 5320           | 2.81             | ≤11.00         | PASS    |
| 11AC40SISO | Ant0    | 5270           | -1.5             | ≤11.00         | PASS    |
|            |         | 5310           | -1.43            | ≤11.00         | PASS    |
| 11AC80SISO | Ant0    | 5290           | -4.71            | ≤11.00         | PASS    |

| TestMode   | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A        | Ant1    | 5260           | 2.47             | ≤11.00         | PASS    |
|            |         | 5300           | 2.48             | ≤11.00         | PASS    |
|            |         | 5320           | 3.46             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5260           | 3.1              | ≤11.00         | PASS    |
|            |         | 5300           | 3.24             | ≤11.00         | PASS    |
|            |         | 5320           | 3.12             | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5270           | -1.82            | ≤11.00         | PASS    |
|            |         | 5310           | -0.91            | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5260           | 3.01             | ≤11.00         | PASS    |
|            |         | 5300           | 3.04             | ≤11.00         | PASS    |
|            |         | 5320           | 3.17             | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5270           | -1.19            | ≤11.00         | PASS    |
|            |         | 5310           | -1.08            | ≤11.00         | PASS    |
| 11AC80SISO | Ant1    | 5290           | -4.12            | ≤11.00         | PASS    |



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## MIMO

| Test Mode | Channel | Frequency<br>(MHz) | Ant 0<br>Conducted<br>Power<br>(dBm/MHz) | Ant 1<br>Conducted Power<br>(dBm/MHz) | MIMO AV<br>Conducted<br>Power<br>(dBm/MHz) | Limit<br>(dBm/MHz) | Verdict |
|-----------|---------|--------------------|------------------------------------------|---------------------------------------|--------------------------------------------|--------------------|---------|
| n20       | 52      | 5260               | 3.81                                     | 3.1                                   | 6.48                                       | ≤10.67             | Pass    |
|           | 60      | 5300               | 2.8                                      | 3.24                                  | 6.04                                       |                    | Pass    |
|           | 64      | 5320               | 3.03                                     | 3.12                                  | 6.09                                       |                    | Pass    |
| N40       | 54      | 5270               | -1.62                                    | -1.82                                 | 1.29                                       | ≤10.67             | Pass    |
|           | 62      | 5310               | 0.74                                     | -0.91                                 | 3.00                                       |                    | Pass    |
| ac20      | 52      | 5260               | 2.92                                     | 3.01                                  | 5.98                                       | ≤10.67             | Pass    |
|           | 60      | 5300               | 2.86                                     | 3.04                                  | 5.96                                       |                    | Pass    |
|           | 64      | 5320               | 2.81                                     | 3.17                                  | 6.00                                       |                    | Pass    |
| ac40      | 54      | 5270               | -1.5                                     | -1.19                                 | 1.67                                       | ≤10.67             | Pass    |
|           | 62      | 5310               | -1.43                                    | -1.08                                 | 1.76                                       |                    | Pass    |
| ac80      | 58      | 5290               | -4.71                                    | -4.12                                 | -1.39                                      | ≤10.67             | Pass    |

Note: The Duty Cycle Factor is compensated in the graph.



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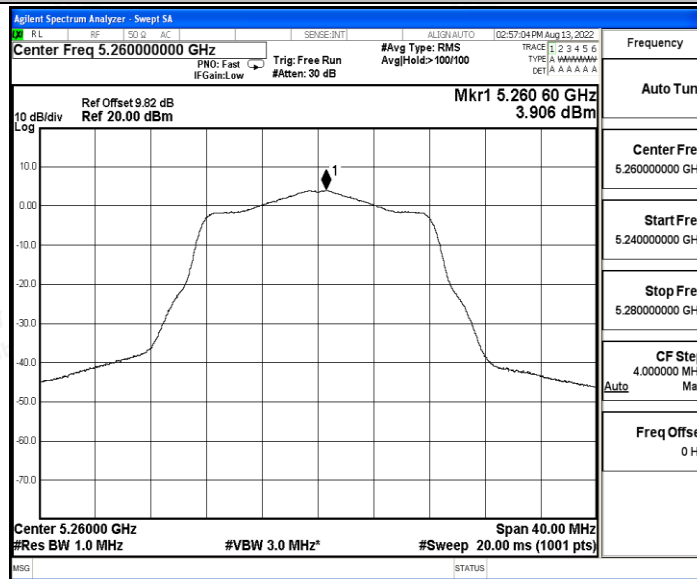
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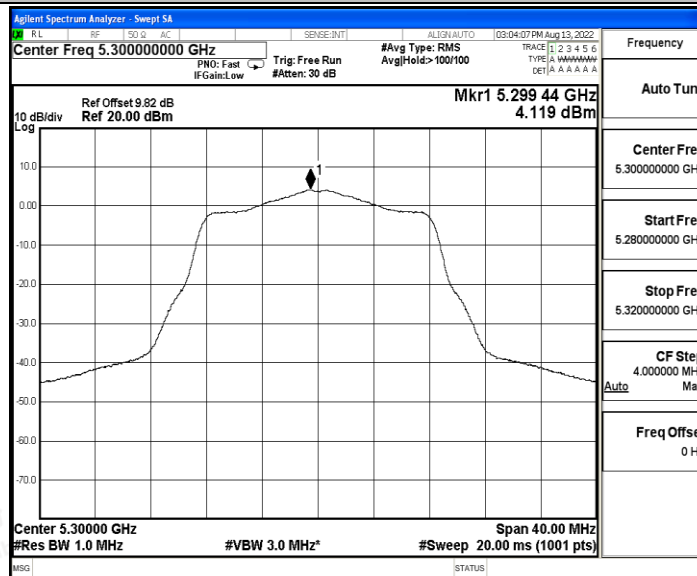


## Test Graphs

11A\_Ant0\_5260



11A\_Ant0\_5300



11A\_Ant0\_5320

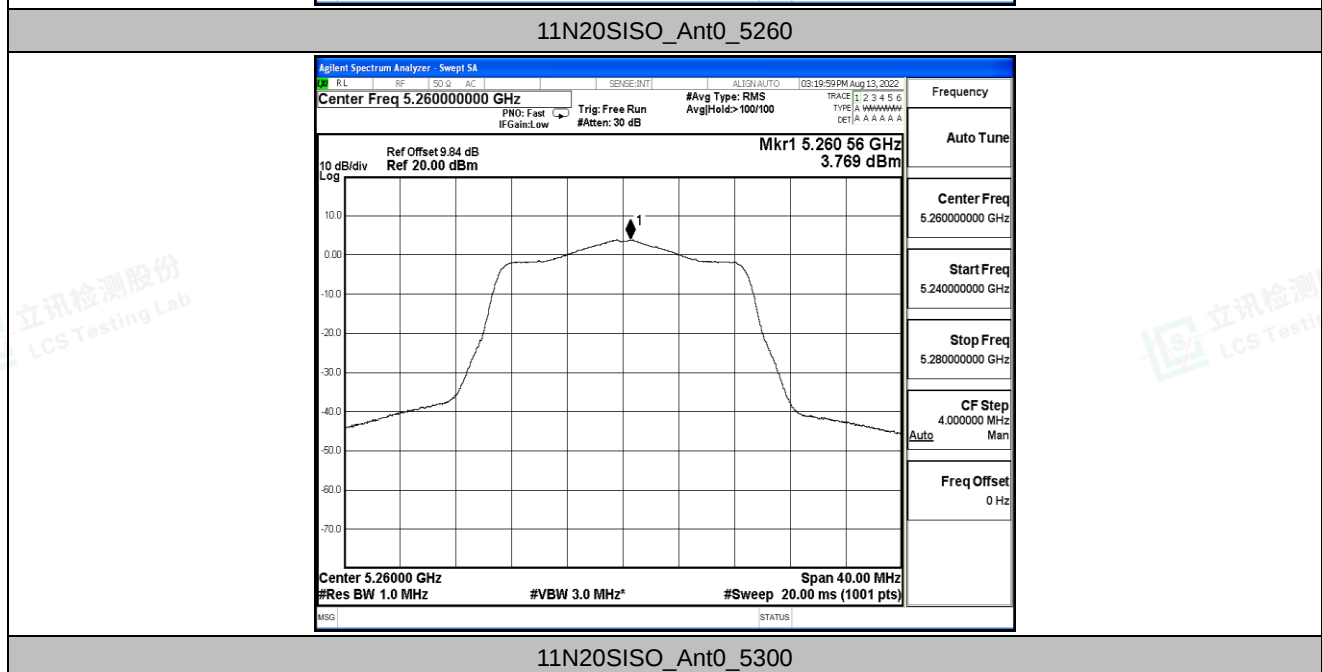
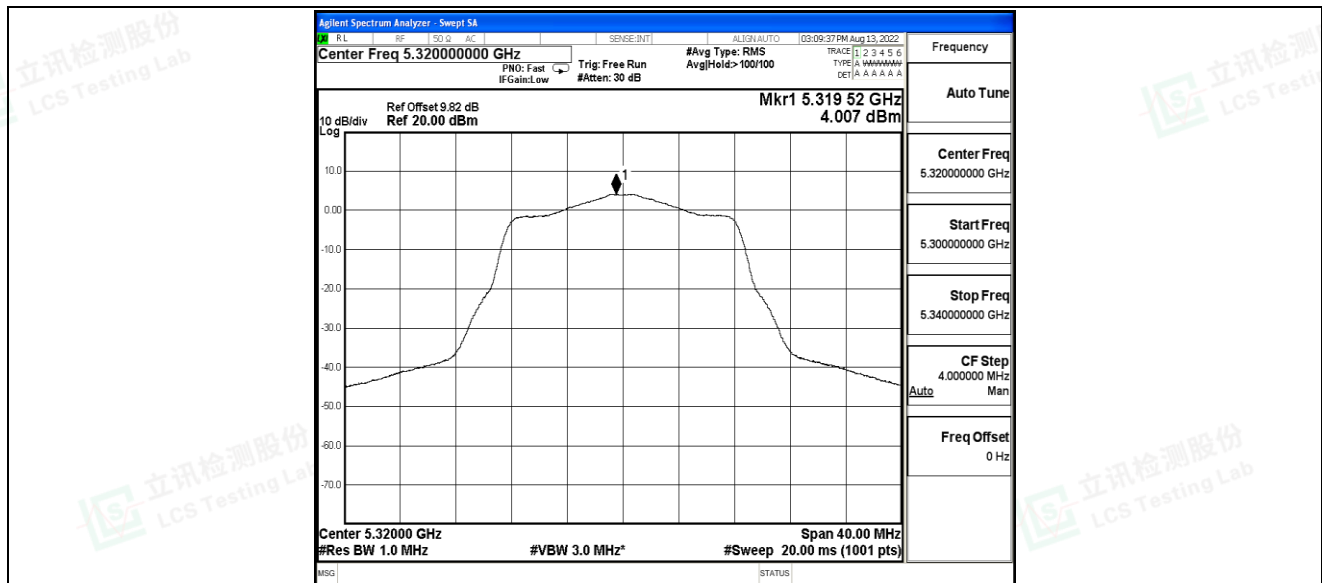


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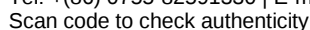
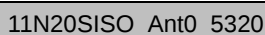


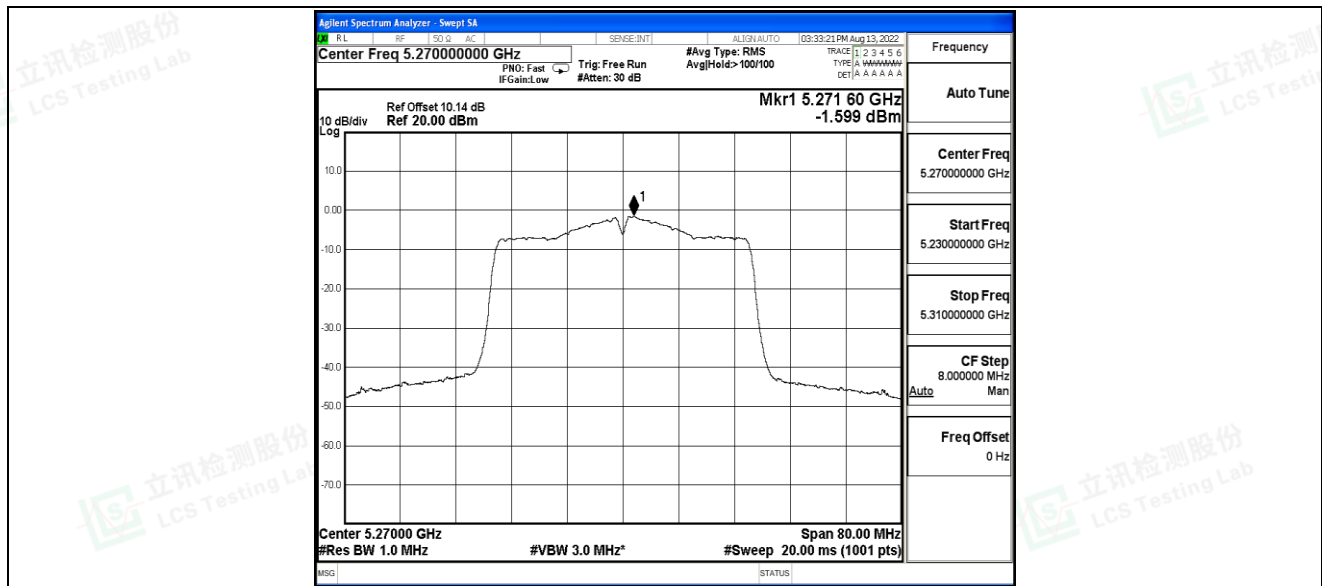
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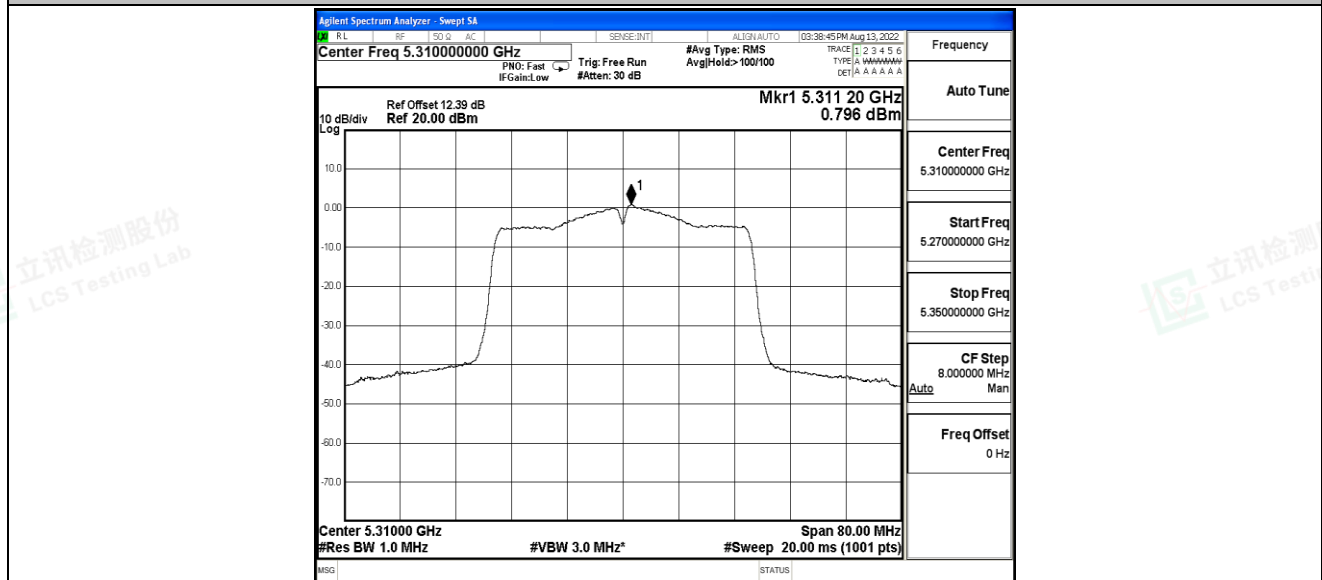
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11N40SISO\_Ant0\_5310



11AC20SISO\_Ant0\_5260

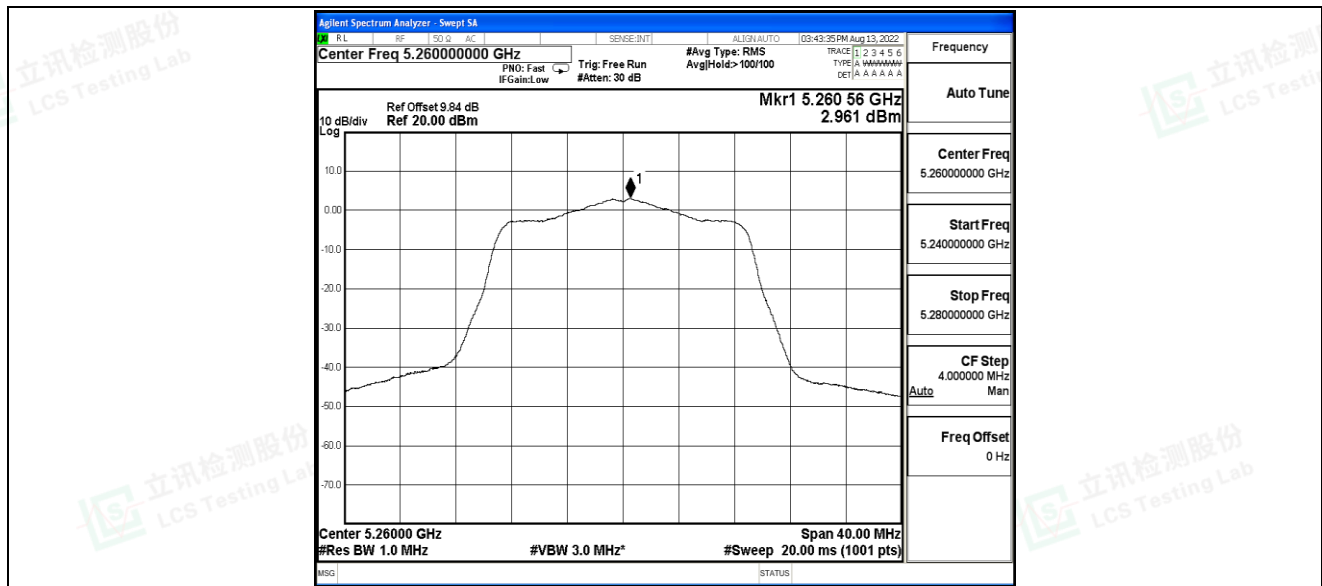


Shenzhen LCS Compliance Testing Laboratory Ltd.

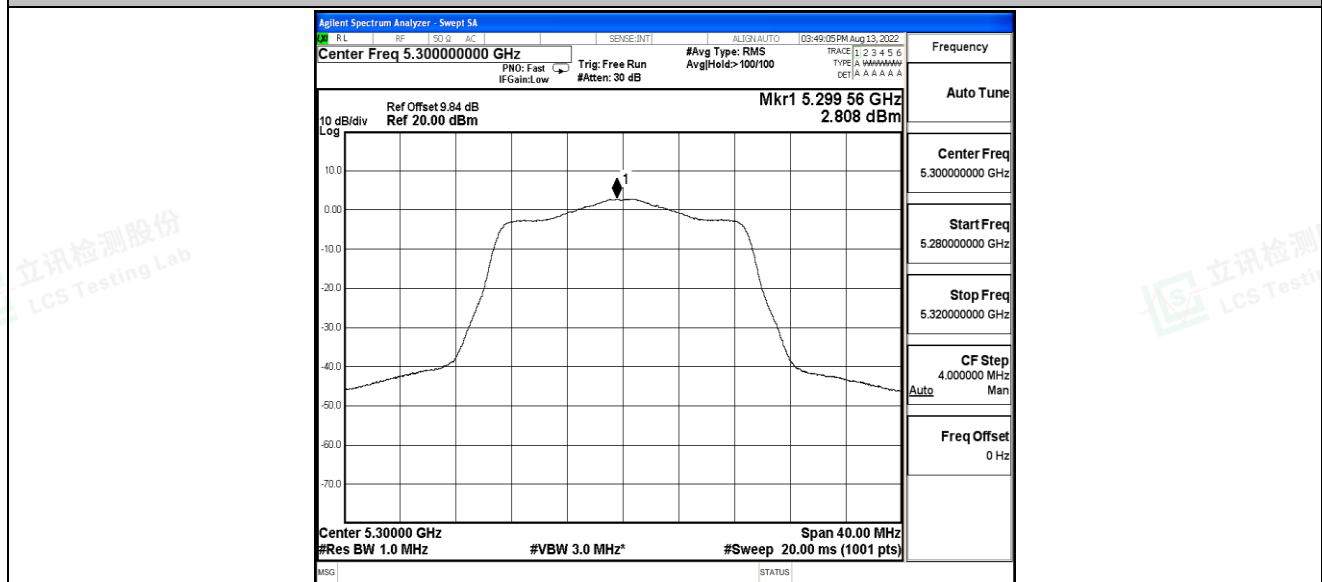
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11AC20SISO\_Ant0\_5300



11AC20SISO\_Ant0\_5320

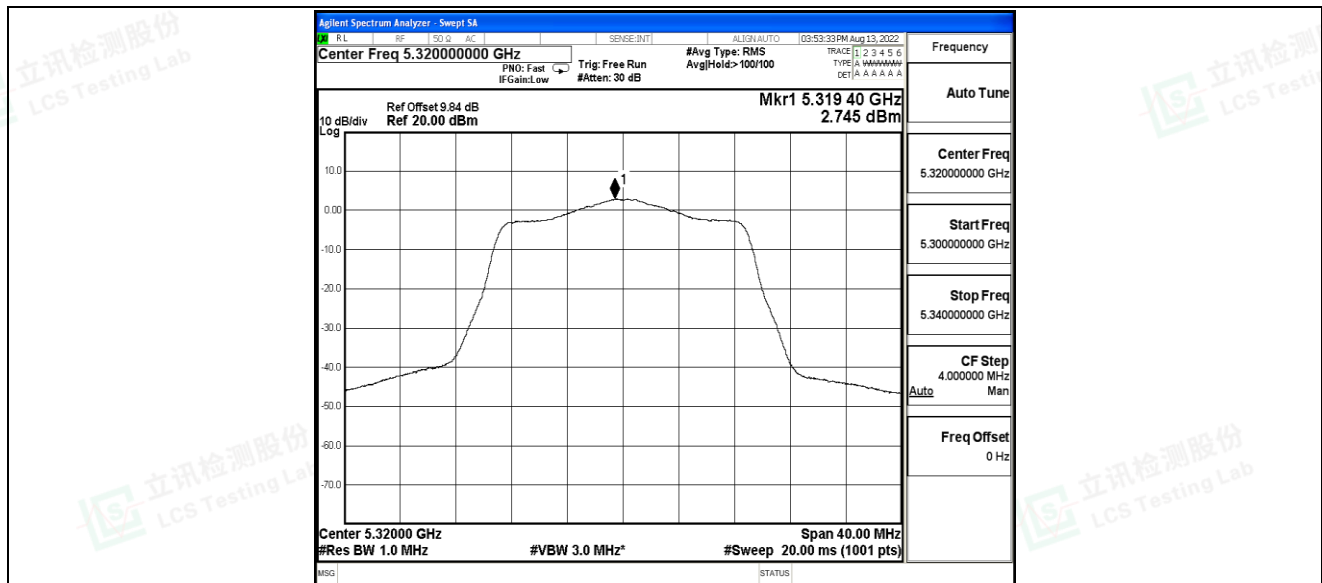


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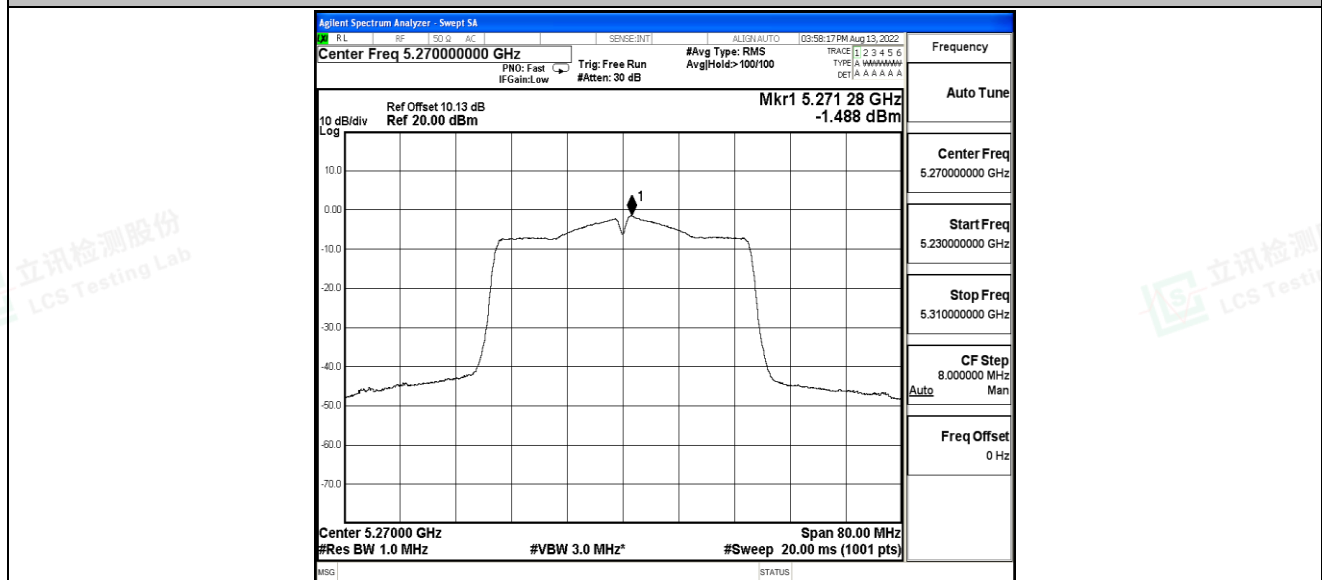
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11AC40SISO\_Ant0\_5270



11AC40SISO\_Ant0\_5310

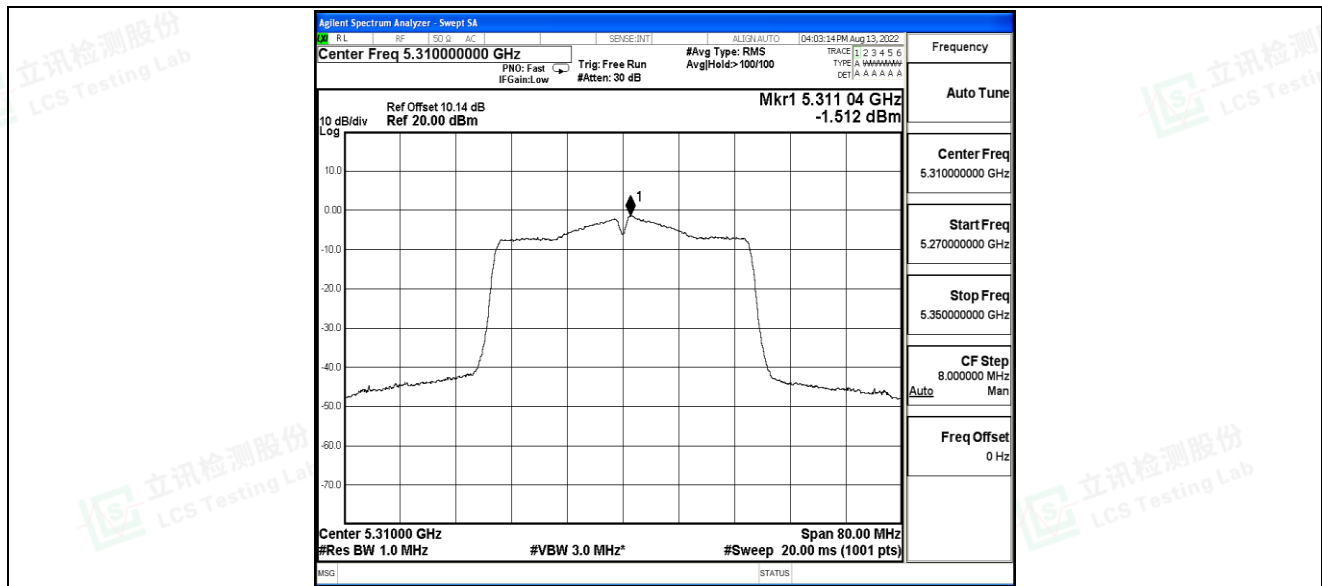


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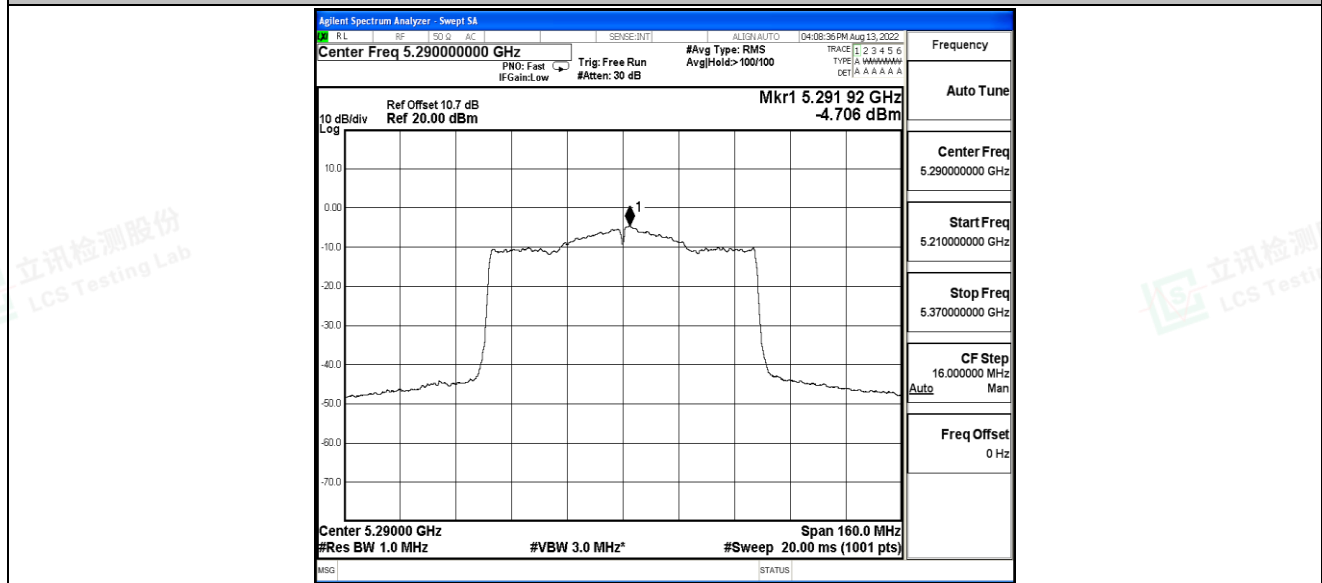
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## 11AC80SISO\_Ant0\_5290



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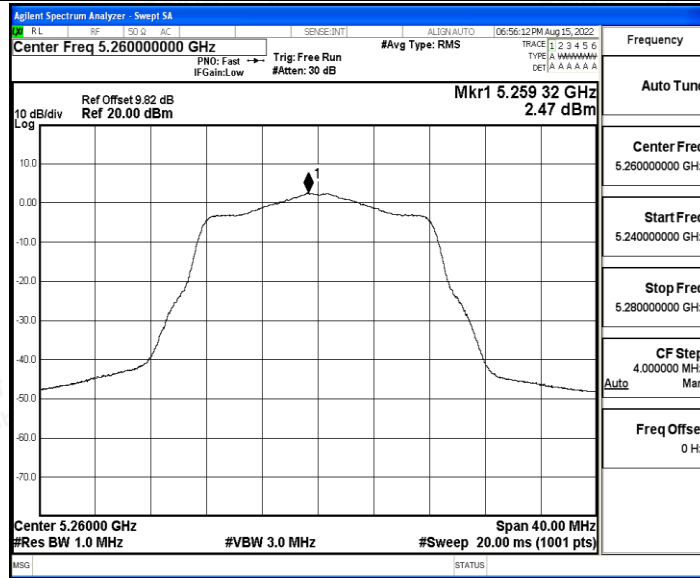
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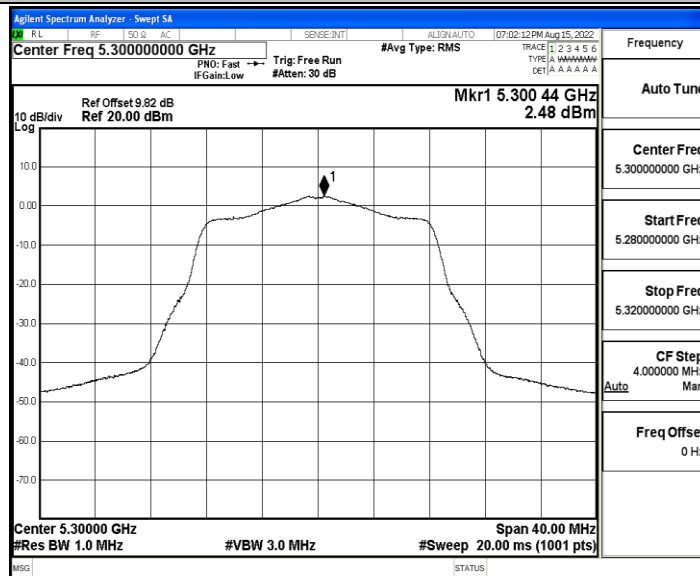
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## 11A\_Ant1\_5260



## 11A\_Ant1\_5300



## 11A\_Ant1\_5320

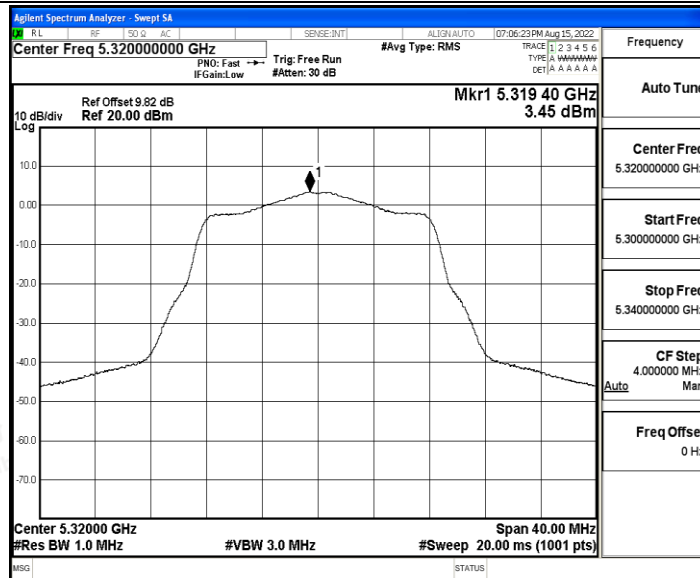


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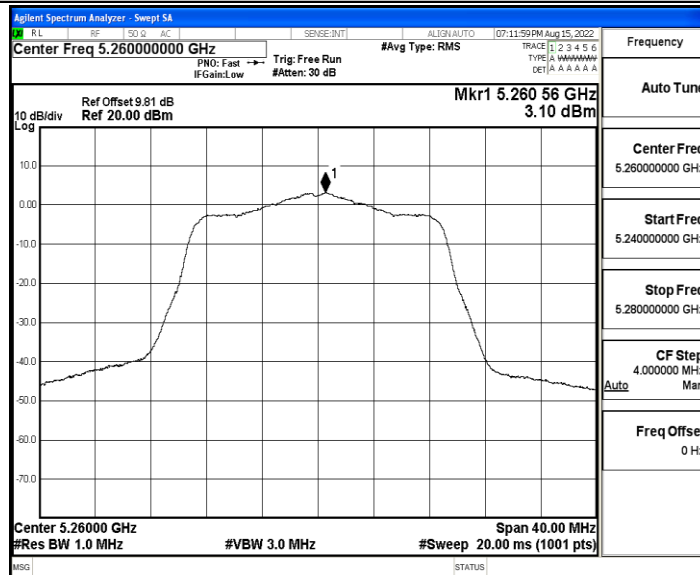
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11N20SISO\_Ant1\_5260



11N20SISO\_Ant1\_5300

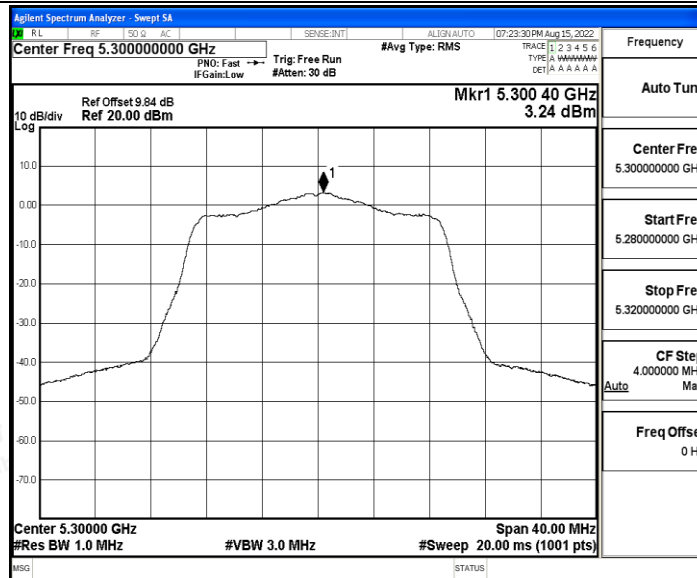


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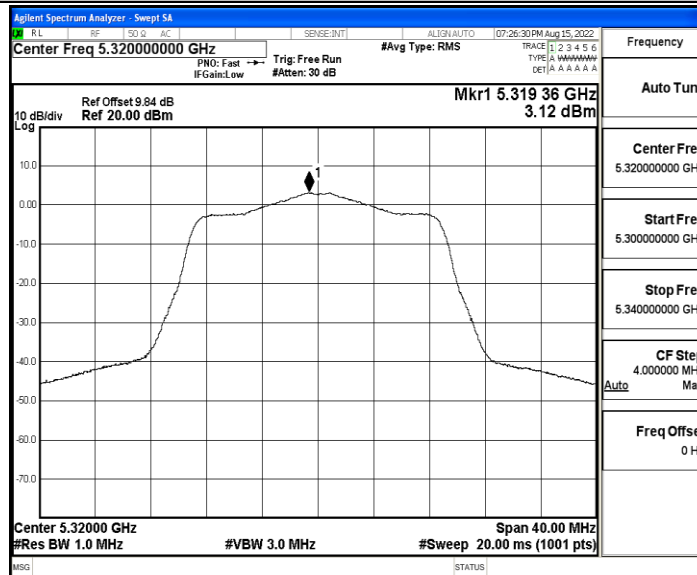
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11N20SISO\_Ant1\_5320



11N40SISO\_Ant1\_5270

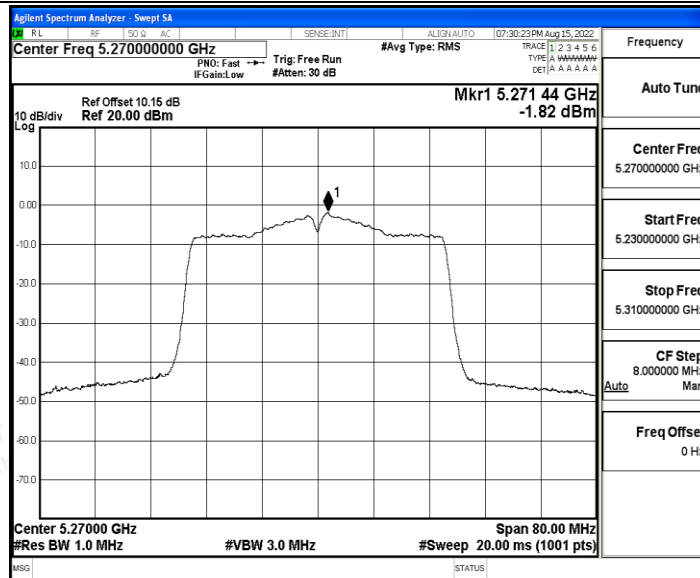


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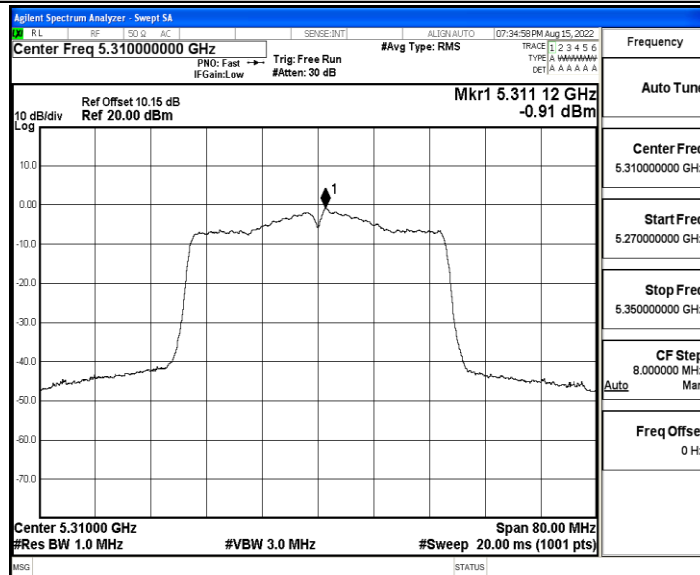
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11N40SISO\_Ant1\_5310



11AC20SISO\_Ant1\_5260

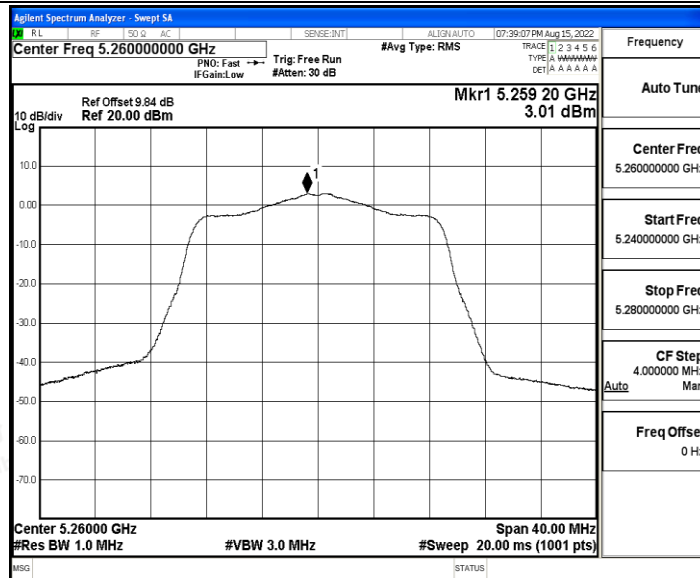


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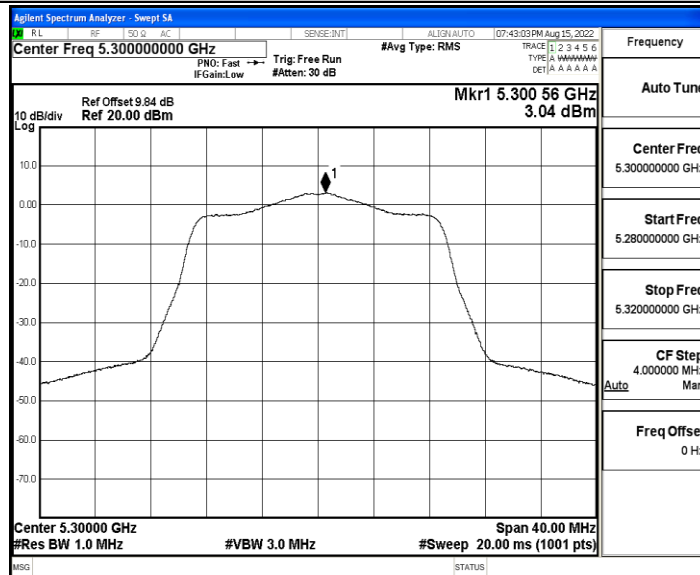
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11AC20SISO\_Ant1\_5300



11AC20SISO\_Ant1\_5320

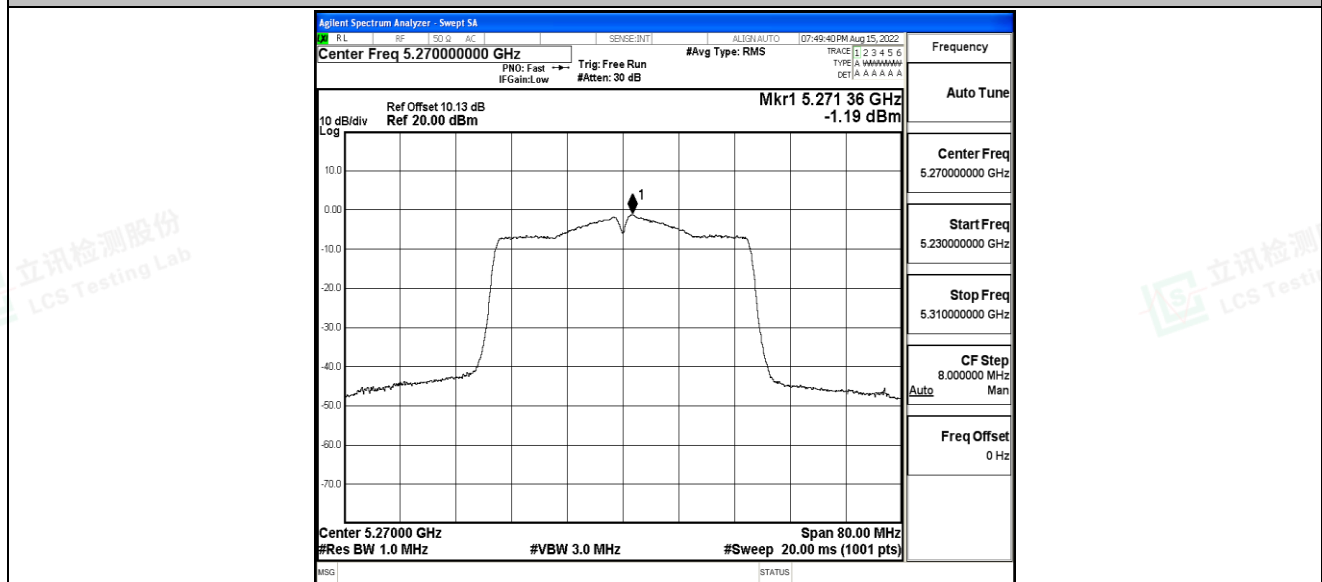
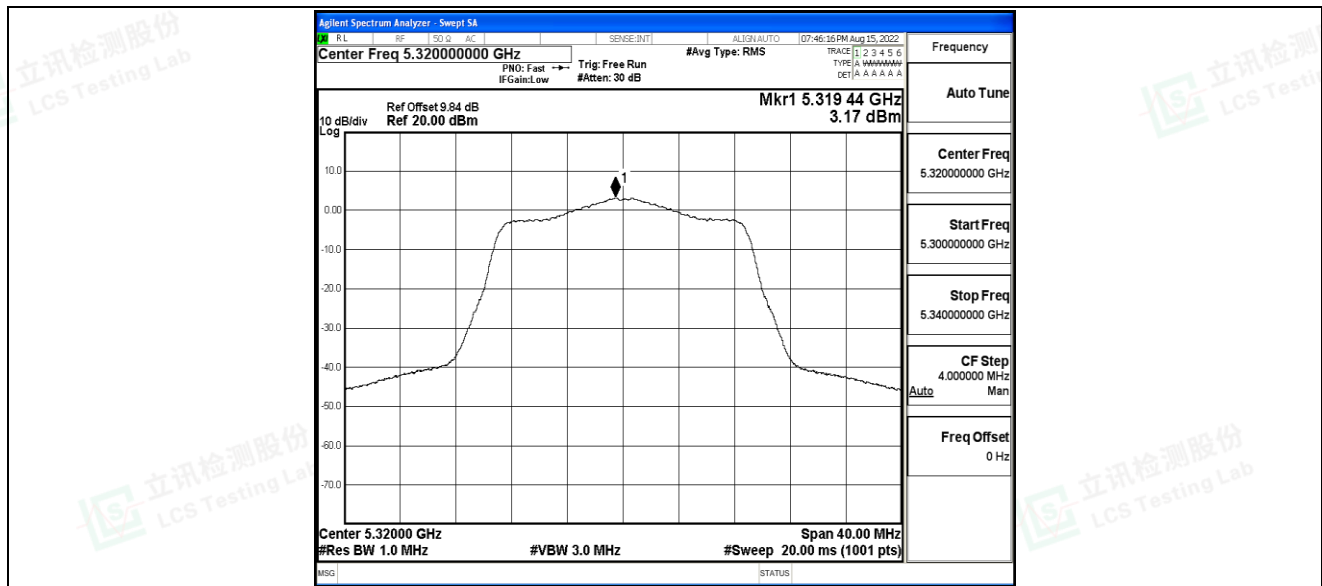


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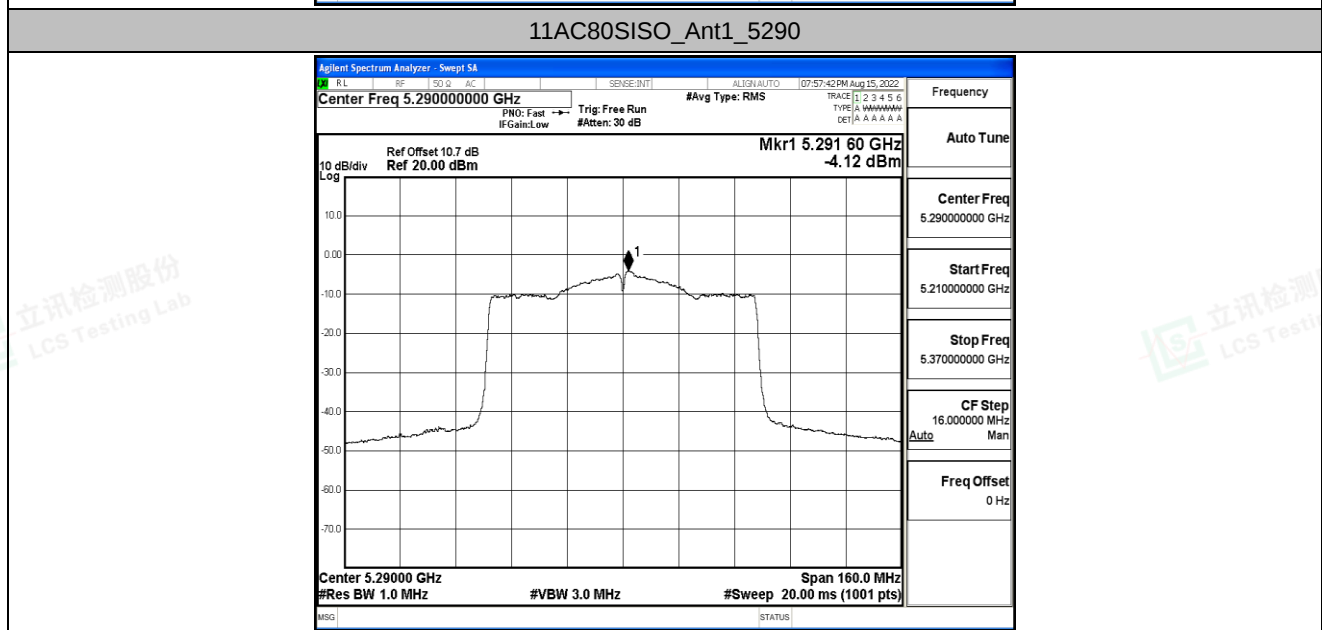
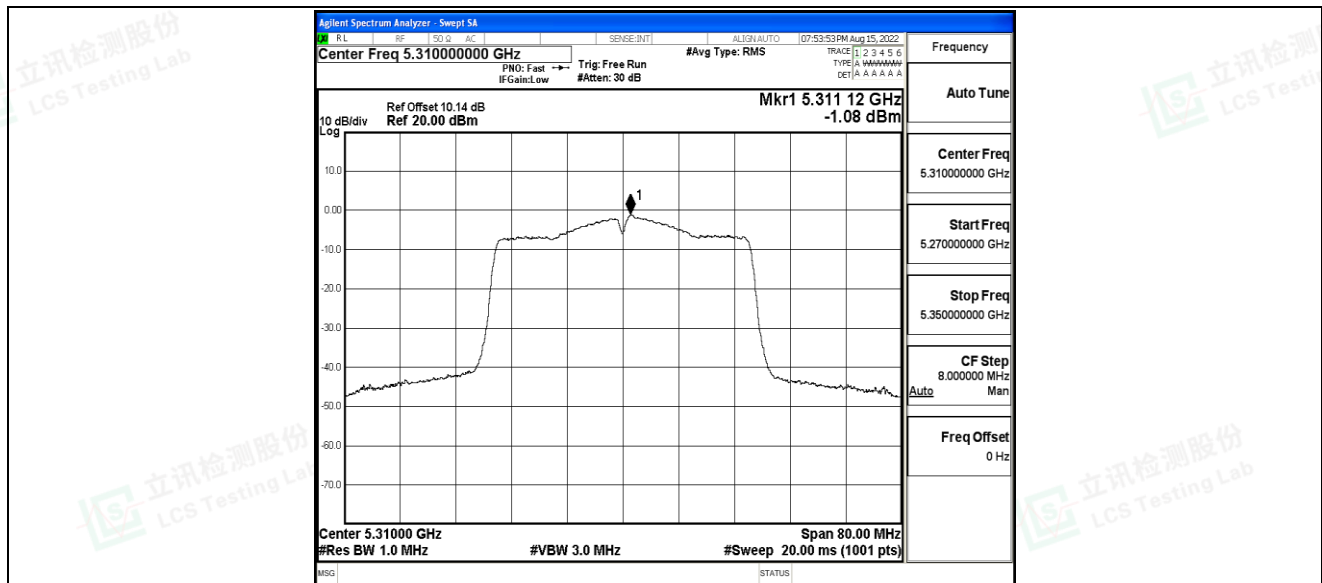


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## E.4 Emissions in Restricted Bands

### Ant0

| TestMode      | Antenna | Channel | Frequency [MHz] | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|---------------|---------|---------|-----------------|----------|------------|--------------|-------------|-----------------|----------------|---------|
| 11A           | Ant0    | Low     | 5260            | AV       | 4500.000   | -58.04       | ≤-41.20     | 40.51           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5139.900   | -55.98       | ≤-41.20     | 42.57           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5150.000   | -56.16       | ≤-41.20     | 42.39           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 4500.000   | -51.41       | ≤-21.20     | 47.14           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 4768.600   | -46.19       | ≤-21.20     | 52.36           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5150.000   | -51.04       | ≤-21.20     | 47.51           | ≤68.2          | PASS    |
|               |         | High    | 5320            | AV       | 5350.000   | -56.18       | ≤-41.20     | 42.37           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5361.120   | -55.99       | ≤-41.20     | 42.56           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5460.000   | -57.17       | ≤-41.20     | 41.38           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 5350.000   | -51.44       | ≤-21.20     | 47.11           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5354.720   | -46.36       | ≤-21.20     | 52.19           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5460.000   | -52.53       | ≤-21.20     | 46.02           | ≤68.2          | PASS    |
| 11N20SI<br>SO | Ant0    | Low     | 5260            | AV       | 4500.000   | -58.04       | ≤-41.20     | 40.51           | ≤54            | PASS    |
|               |         |         |                 | AV       | 4844.440   | -55.8        | ≤-41.20     | 42.75           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5150.000   | -56.13       | ≤-41.20     | 42.42           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 4500.000   | -52.09       | ≤-21.20     | 46.46           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5136.740   | -45.74       | ≤-21.20     | 52.81           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5150.000   | -51.85       | ≤-21.20     | 46.70           | ≤68.2          | PASS    |
|               |         | High    | 5320            | AV       | 5350.000   | -55.79       | ≤-41.20     | 42.76           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5350.240   | -55.7        | ≤-41.20     | 42.85           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5460.000   | -57.04       | ≤-41.20     | 41.51           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 5350.000   | -52.31       | ≤-21.20     | 46.24           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5390.880   | -47.08       | ≤-21.20     | 51.47           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5460.000   | -52.07       | ≤-21.20     | 46.48           | ≤68.2          | PASS    |
| 11N40SI<br>SO | Ant0    | Low     | 5270            | AV       | 4500.000   | -57.92       | ≤-41.20     | 40.63           | ≤54            | PASS    |
|               |         |         |                 | AV       | 4853.130   | -55.51       | ≤-41.20     | 43.04           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5150.000   | -55.94       | ≤-41.20     | 42.61           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 4500.000   | -53.47       | ≤-21.20     | 45.08           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5026.140   | -47.63       | ≤-21.20     | 50.92           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5150.000   | -49.17       | ≤-21.20     | 49.38           | ≤68.2          | PASS    |
|               |         | High    | 5310            | AV       | 5350.000   | -55.26       | ≤-41.20     | 43.29           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5350.080   | -55.26       | ≤-41.20     | 43.29           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5460.000   | -57.04       | ≤-41.20     | 41.51           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 5350.000   | -50.02       | ≤-21.20     | 48.53           | ≤68.2          | PASS    |



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|                |      |      |      |      |          |        |         |       |       |      |
|----------------|------|------|------|------|----------|--------|---------|-------|-------|------|
| 11AC20<br>SISO | Ant0 | Low  | 5260 | Peak | 5358.720 | -46.6  | ≤-21.20 | 51.95 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5460.000 | -52.21 | ≤-21.20 | 46.34 | ≤68.2 | PASS |
|                |      |      |      | AV   | 4500.000 | -58.24 | ≤-41.20 | 40.31 | ≤54   | PASS |
|                |      |      |      | AV   | 4923.440 | -55.9  | ≤-41.20 | 42.65 | ≤54   | PASS |
|                |      |      |      | AV   | 5150.000 | -56.17 | ≤-41.20 | 42.38 | ≤54   | PASS |
|                |      |      |      | Peak | 4500.000 | -53.07 | ≤-21.20 | 45.48 | ≤68.2 | PASS |
|                |      | High | 5320 | Peak | 4523.700 | -47.42 | ≤-21.20 | 51.13 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5150.000 | -50.14 | ≤-21.20 | 48.41 | ≤68.2 | PASS |
|                |      |      |      | AV   | 5350.000 | -55.71 | ≤-41.20 | 42.84 | ≤54   | PASS |
|                |      |      |      | AV   | 5351.200 | -55.54 | ≤-41.20 | 43.01 | ≤54   | PASS |
|                |      |      |      | AV   | 5460.000 | -57.14 | ≤-41.20 | 41.41 | ≤54   | PASS |
|                |      |      |      | Peak | 5350.000 | -52.08 | ≤-21.20 | 46.47 | ≤68.2 | PASS |
| 11AC40<br>SISO | Ant0 | Low  | 5270 | Peak | 5399.520 | -47.07 | ≤-21.20 | 51.48 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5460.000 | -54.61 | ≤-21.20 | 43.94 | ≤68.2 | PASS |
|                |      |      |      | AV   | 4500.000 | -57.91 | ≤-41.20 | 40.64 | ≤54   | PASS |
|                |      |      |      | AV   | 5129.630 | -55.5  | ≤-41.20 | 43.05 | ≤54   | PASS |
|                |      |      |      | AV   | 5150.000 | -56.06 | ≤-41.20 | 42.49 | ≤54   | PASS |
|                |      |      |      | Peak | 4500.000 | -51.75 | ≤-21.20 | 46.80 | ≤68.2 | PASS |
|                |      | High | 5310 | Peak | 4789.930 | -46.96 | ≤-21.20 | 51.59 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5150.000 | -50.7  | ≤-21.20 | 47.85 | ≤68.2 | PASS |
|                |      |      |      | AV   | 5350.000 | -55.74 | ≤-41.20 | 42.81 | ≤54   | PASS |
|                |      |      |      | AV   | 5360.800 | -55.41 | ≤-41.20 | 43.14 | ≤54   | PASS |
|                |      |      |      | AV   | 5460.000 | -56.99 | ≤-41.20 | 41.56 | ≤54   | PASS |
|                |      |      |      | Peak | 5350.000 | -49.26 | ≤-21.20 | 49.29 | ≤68.2 | PASS |
| 11AC80<br>SISO | Ant0 | Low  | 5290 | Peak | 5350.400 | -46.95 | ≤-21.20 | 51.60 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5460.000 | -50.78 | ≤-21.20 | 47.77 | ≤68.2 | PASS |
|                |      |      |      | AV   | 4500.000 | -57.67 | ≤-41.20 | 40.88 | ≤54   | PASS |
|                |      |      |      | AV   | 4809.750 | -55.29 | ≤-41.20 | 43.26 | ≤54   | PASS |
|                |      |      |      | AV   | 5150.000 | -55.98 | ≤-41.20 | 42.57 | ≤54   | PASS |
|                |      |      |      | Peak | 4500.000 | -55.16 | ≤-21.20 | 43.39 | ≤68.2 | PASS |
|                |      | High | 5290 | Peak | 4833.750 | -47.36 | ≤-21.20 | 51.19 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5150.000 | -50.89 | ≤-21.20 | 47.66 | ≤68.2 | PASS |
|                |      |      |      | AV   | 5350.000 | -56.05 | ≤-41.20 | 42.50 | ≤54   | PASS |
|                |      |      |      | AV   | 5350.400 | -55.4  | ≤-41.20 | 43.15 | ≤54   | PASS |
|                |      |      |      | AV   | 5460.000 | -56.4  | ≤-41.20 | 42.15 | ≤54   | PASS |
|                |      |      |      | Peak | 5350.000 | -50.55 | ≤-21.20 | 48.00 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5391.200 | -46.61 | ≤-21.20 | 51.94 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5460.000 | -54.03 | ≤-21.20 | 44.52 | ≤68.2 | PASS |



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**Ant1**

| TestMode      | Antenna | Channel | Frequency [MHz] | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|---------------|---------|---------|-----------------|----------|------------|--------------|-------------|-----------------|----------------|---------|
| 11A           | Ant1    | Low     | 5260            | AV       | 4500.000   | -58.02       | ≤-41.20     | 40.53           | ≤54            | PASS    |
|               |         |         |                 | AV       | 4857.080   | -56.05       | ≤-41.20     | 42.50           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5150.000   | -56.12       | ≤-41.20     | 42.43           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 4500.000   | -54.72       | ≤-21.20     | 43.83           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5100.400   | -48.24       | ≤-21.20     | 50.31           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5150.000   | -55.1        | ≤-21.20     | 43.45           | ≤68.2          | PASS    |
|               |         | High    | 5320            | AV       | 5350.000   | -56.03       | ≤-41.20     | 42.52           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5351.360   | -55.57       | ≤-41.20     | 42.98           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5460.000   | -57.38       | ≤-41.20     | 41.17           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 5350.000   | -53.09       | ≤-21.20     | 45.46           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5383.360   | -47.99       | ≤-21.20     | 50.56           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5460.000   | -55.07       | ≤-21.20     | 43.48           | ≤68.2          | PASS    |
| 11N20SI<br>SO | Ant1    | Low     | 5260            | AV       | 4500.000   | -58.33       | ≤-41.20     | 40.22           | ≤54            | PASS    |
|               |         |         |                 | AV       | 4930.550   | -55.94       | ≤-41.20     | 42.61           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5150.000   | -56.19       | ≤-41.20     | 42.36           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 4500.000   | -57          | ≤-21.20     | 41.55           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 4892.630   | -46.38       | ≤-21.20     | 52.17           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5150.000   | -52.53       | ≤-21.20     | 46.02           | ≤68.2          | PASS    |
|               |         | High    | 5320            | AV       | 5350.000   | -55.08       | ≤-41.20     | 43.47           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5350.560   | -54.77       | ≤-41.20     | 43.78           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5460.000   | -56.91       | ≤-41.20     | 41.64           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 5350.000   | -51.31       | ≤-21.20     | 47.24           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5391.520   | -47.87       | ≤-21.20     | 50.68           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5460.000   | -52.47       | ≤-21.20     | 46.08           | ≤68.2          | PASS    |
| 11N40SI<br>SO | Ant1    | Low     | 5270            | AV       | 4500.000   | -58.06       | ≤-41.20     | 40.49           | ≤54            | PASS    |
|               |         |         |                 | AV       | 4825.480   | -55.52       | ≤-41.20     | 43.03           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5150.000   | -55.9        | ≤-41.20     | 42.65           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 4500.000   | -53.37       | ≤-21.20     | 45.18           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 4869.720   | -47.87       | ≤-21.20     | 50.68           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5150.000   | -52.23       | ≤-21.20     | 46.32           | ≤68.2          | PASS    |
|               |         | High    | 5310            | AV       | 5350.000   | -55.63       | ≤-41.20     | 42.92           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5353.280   | -55.35       | ≤-41.20     | 43.20           | ≤54            | PASS    |
|               |         |         |                 | AV       | 5460.000   | -57.12       | ≤-41.20     | 41.43           | ≤54            | PASS    |
|               |         |         |                 | Peak     | 5350.000   | -55.07       | ≤-21.20     | 43.48           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5354.560   | -47.59       | ≤-21.20     | 50.96           | ≤68.2          | PASS    |
|               |         |         |                 | Peak     | 5460.000   | -55.89       | ≤-21.20     | 42.66           | ≤68.2          | PASS    |



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|                |      |      |      |      |          |        |         |       |       |      |
|----------------|------|------|------|------|----------|--------|---------|-------|-------|------|
| 11AC20<br>SISO | Ant1 | Low  | 5260 | AV   | 4500.000 | -58.22 | ≤-41.20 | 40.33 | ≤54   | PASS |
|                |      |      |      | AV   | 5145.430 | -55.99 | ≤-41.20 | 42.56 | ≤54   | PASS |
|                |      |      |      | AV   | 5150.000 | -56.35 | ≤-41.20 | 42.20 | ≤54   | PASS |
|                |      |      |      | Peak | 4500.000 | -53.21 | ≤-21.20 | 45.34 | ≤68.2 | PASS |
|                |      |      |      | Peak | 4849.970 | -46.75 | ≤-21.20 | 51.80 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5150.000 | -52.81 | ≤-21.20 | 45.74 | ≤68.2 | PASS |
|                |      | High | 5320 | AV   | 5350.000 | -55.97 | ≤-41.20 | 42.58 | ≤54   | PASS |
|                |      |      |      | AV   | 5355.840 | -55.5  | ≤-41.20 | 43.05 | ≤54   | PASS |
|                |      |      |      | AV   | 5460.000 | -57.4  | ≤-41.20 | 41.15 | ≤54   | PASS |
|                |      |      |      | Peak | 5350.000 | -55.62 | ≤-21.20 | 42.93 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5393.760 | -48.22 | ≤-21.20 | 50.33 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5460.000 | -52.85 | ≤-21.20 | 45.70 | ≤68.2 | PASS |
| 11AC40<br>SISO | Ant1 | Low  | 5270 | AV   | 4500.000 | -58.22 | ≤-41.20 | 40.33 | ≤54   | PASS |
|                |      |      |      | AV   | 5135.160 | -55.75 | ≤-41.20 | 42.80 | ≤54   | PASS |
|                |      |      |      | AV   | 5150.000 | -55.86 | ≤-41.20 | 42.69 | ≤54   | PASS |
|                |      |      |      | Peak | 4500.000 | -53.66 | ≤-21.20 | 44.89 | ≤68.2 | PASS |
|                |      |      |      | Peak | 4799.410 | -47.36 | ≤-21.20 | 51.19 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5150.000 | -52.67 | ≤-21.20 | 45.88 | ≤68.2 | PASS |
|                |      | High | 5310 | AV   | 5350.000 | -56.61 | ≤-41.20 | 41.94 | ≤54   | PASS |
|                |      |      |      | AV   | 5380.320 | -56.15 | ≤-41.20 | 42.40 | ≤54   | PASS |
|                |      |      |      | AV   | 5460.000 | -57.39 | ≤-41.20 | 41.16 | ≤54   | PASS |
|                |      |      |      | Peak | 5350.000 | -55.96 | ≤-21.20 | 42.59 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5404.640 | -48.55 | ≤-21.20 | 50.00 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5460.000 | -54.65 | ≤-21.20 | 43.90 | ≤68.2 | PASS |
| 11AC80<br>SISO | Ant1 | Low  | 5290 | AV   | 4500.000 | -57.62 | ≤-41.20 | 40.93 | ≤54   | PASS |
|                |      |      |      | AV   | 4836.750 | -55.13 | ≤-41.20 | 43.42 | ≤54   | PASS |
|                |      |      |      | AV   | 5150.000 | -55.89 | ≤-41.20 | 42.66 | ≤54   | PASS |
|                |      |      |      | Peak | 4500.000 | -50.69 | ≤-21.20 | 47.86 | ≤68.2 | PASS |
|                |      |      |      | Peak | 4881.000 | -46.46 | ≤-21.20 | 52.09 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5150.000 | -49.63 | ≤-21.20 | 48.92 | ≤68.2 | PASS |
|                |      | High | 5290 | AV   | 5350.000 | -54.52 | ≤-41.20 | 44.03 | ≤54   | PASS |
|                |      |      |      | AV   | 5351.000 | -54.33 | ≤-41.20 | 44.22 | ≤54   | PASS |
|                |      |      |      | AV   | 5460.000 | -56.51 | ≤-41.20 | 42.04 | ≤54   | PASS |
|                |      |      |      | Peak | 5350.000 | -49.03 | ≤-21.20 | 49.52 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5377.800 | -47.44 | ≤-21.20 | 51.11 | ≤68.2 | PASS |
|                |      |      |      | Peak | 5460.000 | -51.71 | ≤-21.20 | 46.84 | ≤68.2 | PASS |



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**MIMO**

| Condition | Mode | Frequency<br>(MHz) | Spur Freq<br>(MHz) | Power (dBm) |        |           | E<br>(dBuV/m) | Detector | Limit<br>(dBuV/m) | Verdict |
|-----------|------|--------------------|--------------------|-------------|--------|-----------|---------------|----------|-------------------|---------|
|           |      |                    |                    | Ant0        | Ant1   | Ant0+Ant1 |               |          |                   |         |
| NVNT      | n20  | 5260               | 4500.000           | -58.04      | -58.33 | -55.17    | 46.39         | AV       | ≤54               | Pass    |
| NVNT      | n20  | 5260               | 4844.440           | -55.8       | -55.94 | -52.86    | 48.70         | AV       | ≤54               | Pass    |
| NVNT      | n20  | 5260               | 5150.000           | -56.13      | -56.19 | -53.15    | 48.41         | AV       | ≤54               | Pass    |
| NVNT      | n20  | 5260               | 4500.000           | -52.09      | -57    | -50.87    | 50.68         | Peak     | ≤68.2             | Pass    |
| NVNT      | n20  | 5260               | 5136.740           | -45.74      | -46.38 | -43.04    | 58.52         | Peak     | ≤68.2             | Pass    |
| NVNT      | n20  | 5260               | 5150.000           | -51.85      | -52.53 | -49.17    | 52.39         | Peak     | ≤68.2             | Pass    |
| NVNT      | n20  | 5320               | 5350.000           | -55.79      | -55.08 | -52.41    | 49.15         | AV       | ≤54               | Pass    |
| NVNT      | n20  | 5320               | 5350.240           | -55.7       | -54.77 | -52.20    | 49.36         | AV       | ≤54               | Pass    |
| NVNT      | n20  | 5320               | 5460.000           | -57.04      | -56.91 | -53.96    | 47.59         | AV       | ≤54               | Pass    |
| NVNT      | n20  | 5320               | 5350.000           | -52.31      | -51.31 | -48.77    | 52.79         | Peak     | ≤68.2             | Pass    |
| NVNT      | n20  | 5320               | 5390.880           | -47.08      | -47.87 | -44.45    | 57.11         | Peak     | ≤68.2             | Pass    |
| NVNT      | n20  | 5320               | 5460.000           | -52.07      | -52.47 | -49.26    | 52.30         | Peak     | ≤68.2             | Pass    |
| NVNT      | n40  | 5270               | 4500.000           | -57.92      | -58.06 | -54.98    | 46.58         | AV       | ≤54               | Pass    |
| NVNT      | n40  | 5270               | 4853.130           | -55.51      | -55.52 | -52.50    | 49.05         | AV       | ≤54               | Pass    |
| NVNT      | n40  | 5270               | 5150.000           | -55.94      | -55.9  | -52.91    | 48.65         | AV       | ≤54               | Pass    |
| NVNT      | n40  | 5270               | 4500.000           | -53.47      | -53.37 | -50.41    | 51.15         | Peak     | ≤68.2             | Pass    |
| NVNT      | n40  | 5270               | 5026.140           | -47.63      | -47.87 | -44.74    | 56.82         | Peak     | ≤68.2             | Pass    |
| NVNT      | n40  | 5270               | 5150.000           | -49.17      | -52.23 | -47.43    | 54.13         | Peak     | ≤68.2             | Pass    |
| NVNT      | n40  | 5310               | 5350.000           | -55.26      | -55.63 | -52.43    | 49.13         | AV       | ≤54               | Pass    |
| NVNT      | n40  | 5310               | 5350.080           | -55.26      | -55.35 | -52.29    | 49.26         | AV       | ≤54               | Pass    |
| NVNT      | n40  | 5310               | 5460.000           | -57.04      | -57.12 | -54.07    | 47.49         | AV       | ≤54               | Pass    |
| NVNT      | n40  | 5310               | 5350.000           | -50.02      | -55.07 | -48.84    | 52.72         | Peak     | ≤68.2             | Pass    |
| NVNT      | n40  | 5310               | 5358.720           | -46.6       | -47.59 | -44.06    | 57.50         | Peak     | ≤68.2             | Pass    |
| NVNT      | n40  | 5310               | 5460.000           | -52.21      | -55.89 | -50.66    | 50.90         | Peak     | ≤68.2             | Pass    |
| NVNT      | ac20 | 5260               | 4500.000           | -58.24      | -58.22 | -55.22    | 46.34         | AV       | ≤54               | Pass    |
| NVNT      | ac20 | 5260               | 4923.440           | -55.9       | -55.99 | -52.93    | 48.62         | AV       | ≤54               | Pass    |
| NVNT      | ac20 | 5260               | 5150.000           | -56.17      | -56.35 | -53.25    | 48.31         | AV       | ≤54               | Pass    |
| NVNT      | ac20 | 5260               | 4500.000           | -53.07      | -53.21 | -50.13    | 51.43         | Peak     | ≤68.2             | Pass    |
| NVNT      | ac20 | 5260               | 4523.700           | -47.42      | -46.75 | -44.06    | 57.50         | Peak     | ≤68.2             | Pass    |
| NVNT      | ac20 | 5260               | 5150.000           | -50.14      | -52.81 | -48.26    | 53.29         | Peak     | ≤68.2             | Pass    |
| NVNT      | ac20 | 5320               | 5350.000           | -55.71      | -55.97 | -52.83    | 48.73         | AV       | ≤54               | Pass    |
| NVNT      | ac20 | 5320               | 5351.200           | -55.54      | -55.5  | -52.51    | 49.05         | AV       | ≤54               | Pass    |
| NVNT      | ac20 | 5320               | 5460.000           | -57.14      | -57.4  | -54.26    | 47.30         | AV       | ≤54               | Pass    |
| NVNT      | ac20 | 5320               | 5350.000           | -52.08      | -55.62 | -50.49    | 51.07         | Peak     | ≤68.2             | Pass    |
| NVNT      | ac20 | 5320               | 5399.520           | -47.07      | -48.22 | -44.60    | 56.96         | Peak     | ≤68.2             | Pass    |
| NVNT      | ac20 | 5320               | 5460.000           | -54.61      | -52.85 | -50.63    | 50.93         | Peak     | ≤68.2             | Pass    |
| NVNT      | ac40 | 5270               | 4500.000           | -57.91      | -58.22 | -55.05    | 46.51         | AV       | ≤54               | Pass    |



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|------|------|------|----------|--------|--------|--------|-------|------|-------|------|
| NVNT | ac40 | 5270 | 5129.630 | -55.5  | -55.75 | -52.61 | 48.94 | AV   | ≤54   | Pass |
| NVNT | ac40 | 5270 | 5150.000 | -56.06 | -55.86 | -52.95 | 48.61 | AV   | ≤54   | Pass |
| NVNT | ac40 | 5270 | 4500.000 | -51.75 | -53.66 | -49.59 | 51.97 | Peak | ≤68.2 | Pass |
| NVNT | ac40 | 5270 | 4789.930 | -46.96 | -47.36 | -44.15 | 57.41 | Peak | ≤68.2 | Pass |
| NVNT | ac40 | 5270 | 5150.000 | -50.7  | -52.67 | -48.56 | 52.99 | Peak | ≤68.2 | Pass |
| NVNT | ac40 | 5310 | 5350.000 | -55.74 | -56.61 | -53.14 | 48.41 | AV   | ≤54   | Pass |
| NVNT | ac40 | 5310 | 5360.800 | -55.41 | -56.15 | -52.75 | 48.80 | AV   | ≤54   | Pass |
| NVNT | ac40 | 5310 | 5460.000 | -56.99 | -57.39 | -54.18 | 47.38 | AV   | ≤54   | Pass |
| NVNT | ac40 | 5310 | 5350.000 | -49.26 | -55.96 | -48.42 | 53.14 | Peak | ≤68.2 | Pass |
| NVNT | ac40 | 5310 | 5350.400 | -46.95 | -48.55 | -44.67 | 56.89 | Peak | ≤68.2 | Pass |
| NVNT | ac40 | 5310 | 5460.000 | -50.78 | -54.65 | -49.29 | 52.27 | Peak | ≤68.2 | Pass |
| NVNT | ac80 | 5290 | 4500.000 | -57.67 | -57.62 | -54.63 | 46.92 | AV   | ≤54   | Pass |
| NVNT | ac80 | 5290 | 4809.750 | -55.29 | -55.13 | -52.20 | 49.36 | AV   | ≤54   | Pass |
| NVNT | ac80 | 5290 | 5150.000 | -55.98 | -55.89 | -52.92 | 48.63 | AV   | ≤54   | Pass |
| NVNT | ac80 | 5290 | 4500.000 | -55.16 | -50.69 | -49.36 | 52.19 | Peak | ≤68.2 | Pass |
| NVNT | ac80 | 5290 | 4833.750 | -47.36 | -46.46 | -43.88 | 57.68 | Peak | ≤68.2 | Pass |
| NVNT | ac80 | 5290 | 5150.000 | -50.89 | -49.63 | -47.20 | 54.35 | Peak | ≤68.2 | Pass |
| NVNT | ac80 | 5290 | 5350.000 | -56.05 | -54.52 | -52.21 | 49.35 | AV   | ≤54   | Pass |
| NVNT | ac80 | 5290 | 5350.400 | -55.4  | -54.33 | -51.82 | 49.74 | AV   | ≤54   | Pass |
| NVNT | ac80 | 5290 | 5460.000 | -56.4  | -56.51 | -53.44 | 48.11 | AV   | ≤54   | Pass |
| NVNT | ac80 | 5290 | 5350.000 | -50.55 | -49.03 | -46.71 | 54.84 | Peak | ≤68.2 | Pass |
| NVNT | ac80 | 5290 | 5391.200 | -46.61 | -47.44 | -43.99 | 57.56 | Peak | ≤68.2 | Pass |
| NVNT | ac80 | 5290 | 5460.000 | -54.03 | -51.71 | -49.71 | 51.85 | Peak | ≤68.2 | Pass |



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